CATALOG No. 9

WATERHOUSE & LESTER CO.

SAN FRANCISCO
CALIFORNIA, U. S. A.

VEHICLE TRIMMINGS
TRIMMERS' SUPPLIES

CARRIAGE AND AUTOMOBILE TRIMMINGS

FANCY COACH TRIMMINGS AND HARDWARE

TRIMMERS' TOOLS AND GENERAL SUPPLIES

COACH PAINTS AND PAINTERS' SUPPLIES

COPY NO. 876

ISSUED TO Peterson Bros.
Vayuvarda,
Cal

All original descriptive matter, explanatory notes and illustrations in this book are Copyrighted.

A Patent on the Numbering System has been applied for, and all rights and properties under Copyright and Patent Laws will be protected.

COPYRIGHT 1908
By WATERHOUSE & LESTER CO.

PAYOT, STRATFORD & KERR
STATIONERS, PRINTERS
68 FREMONT STREET, SAN FRANCISCO

INTRODUCTION AND EXPLANATION

INTRODUCTORY.—This catalog is issued with the hope that its merits may make it a text book of the line and a reliable reference work. A number of new features have been introduced with the object of increased catalog efficiency in view.

It is hoped that the considerable time and expense involved in compiling this catalog, will be justified by the service which it renders to our patrons.

CATALOG LIFE.—As will be readily appreciated, any method enabling the maintenance of a catalog in an up-to-date condition, is greatly to be preferred to the practice of issuing catalogs in the usual bound or book form.

The now somewhat common "loose-leaf" system, whereby revised pages may be substituted or new pages added, has therefore been applied to this catalog.

Where expedient, added or revised pages will be inserted at the proper point of classification in the catalog, otherwise in Section of Additions and Revisions,—the last Section in the catalog,—which should be consulted in case any desired article is not found in the body of the catalog.

NUMBERING SYSTEM.—To avoid the confusion resulting from the lettering or fractional numbering of added pages, and as a substitute for the usual method of page numbering, a system of numbering the various groups in consecutive order has been devised. (Patent applied for). No two groups (or "Sections" as we conveniently call them) are located on one page, but a "Section" frequently consists of two or more pages.

The numbers of the Sections appear in large figures on each page, preceded by the printer's section mark (§), in the usual place where a page is numbered, the upper outside corner.

It will be noted that the Sections follow one another in consecutive order, in the usual manner of page numbering. Identical section numbers frequently appear on more than one page, as above stated, but this involves no difficulty in locating any item in the catalog.

For example, suppose by reference to the General Outline or to the Alphabetical Index, "Curved Hinges" are found to be in Section 37. Section 37 is "Door Fixtures" and consists of several pages. Turn rapidly through the catalog and locate §37 in exactly the same manner as a page would be located. The first page of §37 might be first encountered. A glance at the page would not disclose the presence of the desired article. Turn rapidly through the pages of §37, glancing at each page, and upon turning a leaf or two, the illustration of Curved Hinges will be quickly seen. If any difficulty is encountered in locating an article, refer to the General Outline, which shows the articles in their exact consecutive order, or to the Alphabetical Index.

ARRANGEMENT.—In compiling this catalog, we have endeavored not only to group kindred articles to the fullest degree expedient, but also to arrange the various groups in their natural consecutive order.

The logical character of the grouping of articles, and the natural order in which the groups or sections succeed one another, should shortly lead to easy familiarity with the catalog, and enable the ready location of any article and consequent obviating of reference either to the Alphabetical Index or to the General Outline.

THE GENERAL OUTLINE or TABLE OF CONTENTS is virtually a "bird's eye view" of or key to the catalog. A familiarity with the General Outline, and consequently with the structure and classification of the catalog, will enable the "quick-finding" of nearly any article without reference to the Alphabetical Index.

ALPHABETICAL INDEX.—We have cross-indexed the catalog under all regular names. Proper names of manufacturers or patent trade words are not usually indexed, but exceptions to this rule have been made in cases where such proper names or trade words are very commonly used.

Where words are repeated, the next succeeding line is set in for the first omitted word and dittoed for the succeeding omitted words.

Key Words are arranged in alphabetical order relative to one another, the same rule applying to the groups of words subordinate to each key word.

LISTS—Lists are used primarily for the purpose of showing comparative values, manufacturers' lists being used as far as practicable.

ORDERING.—Order by catalog number and give sizes and full description, thus avoiding the possibility of error and consequent delay. **Don't expect us to guess at what you should specify.** Always use the terms as given in the catalog.

PRICES.—We issue no **Discount Sheet**, owing to the constant change of prices, but will be pleased to give all inquiries our immediate attention. All prices are subject to change without notice.

MAIL ORDERS.—Mail orders will at all times receive our special attention and will be filled promptly at lowest market prices.

STATEMENTS.—On the first of every month we render statements of accounts, for the purpose of comparison with bills and receipts. Errors and discrepancies should be reported immediately.

REMITTANCES.—Please make remittances by check or draft, exchange prepaid, by money order, or in U. S. Gold Coin or currency, expressage prepaid.

CLAIMS.—Claims for errors and defects must be filed within 15 days from date of invoice. We will not be responsible for issuance of credit memorandums for returned goods, errors, defects, etc., unless customer holds a Merchandise Receipt, which will be issued by the department receiving returned goods or authorizing allowance for errors, defects, etc. In case Merchandise Receipt is not received, request one without delay. The careful preservation of your original Merchandise Receipt is necessary in order to enable you to prove your claim, in case we fail to issue a Credit Memorandum against your Merchandise Receipt.

Our goods are examined and securely packed by experienced packers, and are shipped at risk of purchaser or consignee. We furnish, with all shipments, the carriers' receipt, showing acceptance of merchandise in good order. In case of loss or damage, your recourse is to the carrier.

GENERAL INFORMATION CONCERNING CATALOGED ARTICLES.—We have prefaced each Subdivision of the Catalog with information concerning articles cataloged therein. This feature will naturally prove of minor importance to a considerable percentage of the users of the catalog. It will, however, prove of value as a method of interpretation to persons, technically unfamiliar with the lines, through whom orders pass. It will also prove valuable to beginners and apprentices, and will serve, in many other instances, as the source from which exact definitions may be obtained.

CATALOG NO. 10

This Catalog, No. 9, represents but a part of our line.

Catalog No. 10, which will consist of several hundred pages, will be published at the earliest date consistent with careful compiling, and will represent our full line, as follows:—

Vehicle Trimmings, etc. (The matter contained in Catalog No. 9.)
Vehicle Hardware, Gear and Body Parts.
Bolts, Nuts, Washers, Rivets, Screws, etc.
Blacksmiths' and Wagonmakers' Tools and Machines.
Electric Motors and Gas Engines.
Line Shafting, Pulleys, Belting, etc.
Farriers' Supplies and Tools.
Iron, Steel, Chain, Coal, etc.
Wagon Hardwoods, and Hardwood Lumber.

WATERHOUSE & LESTER CO. SAN FRANCISCO, CALIF.

*GENERAL OUTLINE

Table of Contents

CLOTHS, FABRICS AND LEATHERS

AUTO FABRICS ..... § 1
- Top Coverings
- Slip Linings

ENAMELED CLOTHS ..... § 2
- Ducks
- Drills
- Muslins
- Leather Cloth
- Imitation Dash Leather

RUBBER CLOTHS ..... § 3
- Ducks
- Drills
- Harral and Major Cloth
- Aprou Materials

ARTIFICIAL LEATHERS ..... § 4
- Chase Leather
- Imitation Spanish Leather
- Moroccoline
- Keratol Top Leather

NATURAL LEATHERS ..... § 5
- Hand Buffed
- Machine Buffed
- Deep Buffed
- Splits
- Gimps
- Harness Leather

CARRIAGE CLOTHS ..... § 6
- Cotton
- Woolen
- Whipcords
- Bedford Cords
- Corduroy

MOROCCOS, SATINS AND SILKS..... § 7
- Morocco Skins
- French Satins
- Curtain Silks

COTTON DUCK, TARPAULIN AND MUSLIN..... § 8
- White and Tan Duck
- Tarpaulin
- Unbleached Muslin
- Checked Gingham

CARPETS, MATS AND MATTING..... § 9
- Plain Carpet
- Figured Carpet
- Tapestry Carpet
- Oil Carpet
- Cocoa Mats
- Rubber Matting
- Rubber Mats

MAJOR TOP ACCESSORIES

VEHICLE BOWS ..... §10
- Buggy Bows
- Automobile Bows
- Wagon Bows
- Top Woods

SLAT IRONS ..... §11
- Buggy
- Automobile

BOW SOCKETS ..... §12
- Buggy
- Automobile
- Bow Socket Tubes
- Bow Socket Rivets

BOW SEPARATORS ..... §13

TOP BRACES, JOINTS AND ENDS §14
- Top Braces
- Concealed Joints
- Stump Joints
- Joint Ends
- Joint Rivets
- Joint Washers

SHIFTING RAILS AND EXTRAS..... §15
- Shifting Rails
- Arm Rails
- Back Standards
- Rail Attachments

TOP PROPS ..... §16

TOP PROP NUTS, RIVETS, WASHERS, ETC..... §17
- Nuts and Rivets
- Nut Locks and Washers
- Bow Rest Rubber

BOW RESTS AND WASHERS..... §18

VALANCES, BACK STAYS, ETC..... §19
- Valances and Tools
- Back Stays
- Top Levers

CANOPY TOP IRONS..... §20
- Standards
- Sockets
- Offsets

MINOR TOP ACCESSORIES

CARRIAGE KNOBS ..... §21

KNOB EYELETS AND CURTAIN PATCHES..... §22

CURTAIN FASTENERS, TOOLS AND HOOKS..... §23

BUCKLE AND STRAP LOOPS; LOOPS AND STRAPS §24

CURTAIN LIGHTS ..... §25

TOPS, SUN-SHADES, CUSHIONS, ETC.

TOPS—
- Buggy Tops..... §26
- Extension Tops..... §27
- Canopy Tops..... §28

CANOPIES AND UMBRELLAS..... §29

SUN-SHADES, STORM APRONS AND DUST HOODS §30

SEAT CUSHIONS..... §31

SEAT BACKS..... §32

COACH TRIMMINGS, HARDWARE AND ACCESSORIES

FRINGE ..... §33

FANCY INSIDE TRIMMINGS..... §34
- Tasesls, Frogs, Etc.
- Cords and Guard Strings
- Eyelets and Finishing Nails
- Broad, Seaming and Pasting Laces

CURTAIN ROLLERS AND ACCESSORIES..... §35
- Curtain Rollers
- Cord Holders
- Cord Runners
- Hooks and Eyes
- Curtain Cord

WINDOW FIXTURES, ETC..... §36
- Lace Plates
- Lifts and Rests
- Fasteners
- Lace Slides
- Springs
- Anti-Rattlers
- Screw Knobs
- Ventilating Knobs
- Head Screws
- Plated Screws

DOOR FIXTURES..... §37
- Door Stops
- Dovetails
- Sill Plates
- Flappers
- Concealed Hinges
- Straight Hinges
- Curved Hinges
- Back Flap Hinges

LOCKS, ETC..... §38
- Spring
- Box
- Mortise
- Top Lever
- Tonneau Door
- Delivery Wagon
- Hearse Door
- Hearse Door Springs
- Concealed Key Holes
- Lever Lock Strikers

LANDAU FIXTURES ..... §39

CLUB HANDLES..... §40

DROP HANDLES ..... §41

INSIDE AND LEVER LOCK HANDLES..... §42

MISCELLANEOUS VEHICLE HANDLES..... §43
- Tonneau Side
- Foot Board
- Wagon
- Handle Nuts and Washers

FASTENERS AND LOOPS..... §44
- Landau Top Fasteners
- Tailboard Fasteners
- Footman Loops
- Cushion Strap Loops
- Kicking Strap Loops
- Top Stay Snaps
- Auto Snap Loops

See Paragraph:—"Numbering System" and "The General Outline" in INTRODUCTION AND EXPLANATION method of use.

For additions and Revisions see § (Section) 96.

CALIFORNIA STATE LIBRARY

CARRIAGE AND AUTO MOLDING..... §45
CARRIAGE AND LIMOUSINE ACCESSORIES..... §46
Toilet Cases
Card Cases
Ash Trays
Hand Mirrors
Carriage Heaters
Wheel Guards
Lunch Baskets
Robe Rails
Foot Rests
Speaking Tubes
Parasol and Umbrella Holders
Umbrella and Floor Drainers
BELLS, GONGS AND PULLS..... §47

BODY ACCESSORIES

DASHES..... §48
DASH ACCESSORIES..... §49
Dash Molding
Dash Feet
Dash and Fender Bolts
Apron Fasteners, Rings and Hooks
DASH RAILS..... §50
FENDERS..... §51
Surrey Fenders
Phaeton Fenders
Seat Fenders
Automobile Fenders
Fender Irons
BUGGY BOOTS, TOE PADS, ETC..... §52
Buggy Boots
Boot Rubbers
Boot Springs
Toe Carpet Fasteners
Toe Pads
WHIP SOCKETS—
Metal..... §53
Wood..... §54
Leather Covered..... §55
WHIP SOCKET FASTENERS AND REIN HOLDERS §56
Fasteners
Rein Holders
Rein Hooks
LAMPS—
Carriage..... §57
Hearse..... §57
Stage..... §57
Driving..... §58
LAMP ACCESSORIES..... §59
Candles
Anti-Candles
Burners
Finger Irons

SHAFT AND POLE TRIMMINGS

SHAFT TIPS..... §60
SHAFT SOCKET ENDS..... §60
POLE TIPS..... §61
POLE CRABS..... §62
WHIFFLETREE ACCESSORIES, ETC..... §63
Tips
Shaft Tug Stops
Shaft Stops
Trace Posts
Trace Attachments
NECKYOKE ACCESSORIES AND NECKYOKES. §64
Tips
Centers
Neckyokes (Finished)
SHAFT LEATHERS AND STRAPS..... §65
ANTI-RATTLERS..... §66

SUNDRY TRIMMERS' MATERIALS

TRIMMERS' NAILS..... §67
TRIMMERS' TACKS..... §68
BUTTONS AND TUFTS..... §69
RIVETS AND GROMMETS..... §70
THREAD AND SPOOL SILK..... §71
TWINE, CORD AND WAX..... §72
CUSHION SPRINGS AND WOODS..... §73
STIFFENING MATERIALS..... §74
Buckram
Scrims
Burlap
Strawboard
Back Stay Paper
Stay Webbing
FILLING MATERIALS..... §75
Excelsior
Moss
Curled Hair
Wadding
DRESSINGS, GLUE, ETC..... §76
Top Dressings
Harness Dressings
Edge Ink
Harness Oil
Glue
Paste
BUCKLES..... §77
RINGS, SNAPS AND LOOPS..... §78

TRIMMERS' TOOLS AND MACHINES

TRIMMERS' AWLS..... §79
MISCELLANEOUS HANDLED TOOLS..... §80
Claw Tools
Ticklers
Creasers
Edge Tools
Pricking Wheels
Finishing Wheels
Screw Drivers
TRIMMERS' HAMMERS..... §81
TRIMMERS' KNIVES..... §82
Square Point Knives
Oap Knives
Round Knives
Head Knives
Draw Gauges
Strap Shaves
CUTTERS AND PUNCHES..... §83
Washer Cutters
Shears
Miscellaneous Punches
MISCELLANEOUS TRIMMERS' TOOLS..... §84
Slickers
Compasses
Plyers
Pincers
Nippers
Rivet Sets
Grommet Dies
Knob Wrenches
Eyelet Punches
Nut and Collar Wrenches
Stuffers
Rules
Tapes
Auxilliary Tools
TRIMMERS' NEEDLES..... §85
CLAMPS AND VISES..... §86
TRIMMERS' MACHINES..... §87
Creasing Machines
Splitting Machines
Button Machines
Rounders
Stiching Horsess
Sewing Machines
Dash Machines
Hair Pickers

SUNDRY SUPPLIES

VARNISHES..... §88
COACH COLORS..... §89
PAINTS AND PAINTERS' SUPPLIES..... §90
Prepared Paints
Lamp Black
White Lead
Chamois Skins
Sponges
Pumice Stone
Rubbing Brick
Brush Keepers
Paint Presses
Sand Paper
BRUSHES..... §91
Paint and Varnish
AXLE WASHERS..... §92
LUBRICANTS..... §93
Axle Oils and Grease
PLATED HUB BANDS..... §94
MISCELLANEOUS..... §95
ADDITIONS AND REVISIONS..... §96

*ALPHABETICAL INDEX

A §

ACORNS, Curtain ... 34
ADVERTISING Umbrellas ... 29
ANTI-CANDLES ... 59
ANTI-RATTLER Rubber ... 66
ANTI-RATTLERS, Shaft ... 66
  Window ... 36
APRON Cloth ... 3
  Fasteners ... 49
  Hooks ... 49
  Rings ... 49
APRONS, Storm ... 30
ARM RAIL Sockets ... 15
ARM RAILS ... 15
ARTIFICIAL Leathers ... 4
ASH TRAYS ... 46
ATTACHMENTS, Shifting Rail ... 15
  Trace ... 63
AUTO FABRICS ... 1
AUTOMOBILE Bows ... 10
AUTOMOBILE Bow Separators ... 13
  Bow Sockets ... 12
  " Socket Tubes ... 12
  Curtain Fasteners ... 23
  Door Locks ... 38
  Fabrics ... 1
  Fenders ... 51
  Molding ... 45
  Shifting Rails ... 15
  Snap Loops ... 44
  Top Stay Snaps ... 44
AWL Blades ... 79
  Hafts ... 79, 80
AWLS, Pad ... 79
AXLE Felts ... 92
  Grease ... 93
  Oils ... 93
  Washers ... 92

B §

BACK Springs ... 73
  Standards ... 15
  Stays ... 19
BACK-FLAP Hinges ... 37
BACK-STAY Paper ... 74
BACKS, Lazy ... 32
  Seat ... 32
BAG Punches ... 83
BAIR Bow Separators ... 13
BAND NAILS, Hub ... 94
BANDS, Plated Hub ... 94
BASKETS, Lunch ... 46
BEDFORD CORD ... 6
BEESWAX ... 72
BELL Pulls ... 47
BELLS ... 47
BITS ... 84
BLADES, Awl ... 79
BODY Molding ... 45
BOLT Clippers ... 84
BOLTS, Carriage ... 95
  Dash ... 49
  Fender ... 49
  Machine ... 95
  Shifting Rail ... 15
BOOT Hooks ... 49
  Rubbers ... 52
  Springs ... 52
BOOTS, Buggy ... 52
BOW Separators ... 13
  Socket Rivets ... 12
  " Tubes ... 12
  Sockets ... 12
BOW REST Rubber ... 17
  Washers ... 18
BOW RESTS ... 18
BOWS, Automobile ... 10
  Buggy ... 10
  Truck ... 10
  Wagon ... 10
BOX Locks ... 38
BRACES, Ratchet ... 84
  Top ... 14
BRADS, Wire ... 95
BRASS Escutcheon Pins ... 67
  Nails ... 67
  Screws ... 36
BRICK, Rubbing ... 90
BROAD Laces ... 34
BRUSHES, Edge Ink ... 95
  Paint ... 91
  Varnish ... 91
BRUSH Keepers ... 90
BUCKLE Loops ... 24
BUCKLES, Harness ... 77
  Skate or Shoe ... 77
BUCKRAM ... 74
BUGGY Boots ... 52
  Bows ... 10
  Tops ... 26
BURLAP ... 74
BURNERS, Lamp ... 59
BUTTON Machines ... 87
  Tufts ... 69
BUTTON HOLES, Elastic ... 22
BUTTONS, Clinch ... 69
  Tufting ... 69

C §

CANDLES, Anti ... 59
  Coach ... 59
CANOPIES ... 29
CANOPY Standard Ends ... 20
  " Irons ... 20
  " Offsets ... 20
  Standards ... 20
  Top Curtain Fasteners ... 23, 24
  " Hooks ... 23
  " Woods ... 10
  Tops ... 28
CANVAS (Cotton Duck) ... 8
CAP Knives ... 82
CARD Cases ... 46
CARPETS, Figured ... 9
  Oil ... 9
  Plain ... 9
  Tapestry ... 9
CARRIAGE Cloths ... 6
  Door Molding ... 45
  Fringes ... 33
  Heaters ... 46
  Knobs ... 21
  Lamps ... 57
  Sun-Shades, Adjustable ... 30
CASES, Card ... 46
  Toilet ... 46
CATELY'S Top Lever ... 19
CELLULOID, Transparent Sheet ... 25
CENTERS, Neckyoke ... 64
CHAIN, Tailboard Foot ... 44
CHALK, Freuch ... 95
CHAMOIS Skins ... 90
CHASE Leather ... 4
CHECK Loops ... 78
CHISELS ... 84

§

CLAMPING TOOLS, Valance ... 19, 86
CLAMPS, Dash ... 86
  Screw ... 86
CLAW Tools ... 80
CLINCH Buttons ... 69
  Button Washers ... 69
CLIPS, Shifting Rail ... 15
  Trimmers ... 86
CLOTH, Apron ... 3
  Carriage ... 6
  Enameled ... 2
  Framing ... 6
  Harrall ... 3
  Heath's Leather ... 2
  Major ... 3
  Rubber ... 3
CLUB Handles ... 40
COACH Candles ... 59
  Colors ... 89
  Door Locks ... 38
  Hinges ... 37
  Joint Rivets ... 14
  " Washers ... 14
COCOA Mats ... 9
COLD CHISELS ... 84
COLLAR Needles ... 85
COLORS, Coach ... 89
  Striping ... 89
COMPASSES, Patent Leather ... 84
  Saddlers ... 84
CONCEALED Hinges ... 37
  Joints ... 14
  Keyholes ... 38
CONCORD Stage Lamps ... 57
  Staples and Keys ... 21
CORD, Curtain ... 34, 35
  Hat-Rack ... 34
  Seaming ... 72
CORD Holders, Curtain ... 35
  Runners, Curtain ... 35
CORDUROY ... 6
COTTON Drill ... 6
  Thread ... 71
COTTON DUCK, Tan ... 8
  White ... 8
COUNTERSINKS ... 84
COVERINGS, Top ... 1
CRABS, Pole ... 62
CRAYONS, Blue ... 95
  White ... 95
CREASERS ... 80
CREASING Machines ... 87
CUP HOOKS, Brass ... 23
CURLED Hair ... 75
CURTAIN Acorns ... 34
  Cord ... 34, 35
  " Holders ... 35
  " Runners ... 35
  Fastener Punches ... 23
  " Tools ... 23
  Fasteners ... 23
  Fasteners, Canopy Top ... 24
  " Glove Button ... 23
  Hooks ... 35
  Lights ... 25
  Patches ... 22
  Pulls ... 34
  Roller Extras ... 35
  " Supports ... 35
  Rollers ... 35
  Screw Eyes ... 35
  Silks ... 7

*See Paragraphs:—"Numbering System" and "Alphabetical Index" in INTRODUCTION AND EXPLANATION for method of use.

For Additions and Revisions see § (Section) 96.

*ALPHABETICAL INDEX—Continued

	§
Strap Loops	24
Straps	24
Tassels	34
CURVED Hinges	37
CUSHION Springs	73
Strap Loops	44
Woods	73
CUSHIONS, Seat	31
CUTTERS, Washer	83

D

	§
DASH Accessories	49
Bolts	49
Feet	49
Leather	5
Leather. Imitation	2
Machines	87
Molding	49
Pocket Aprons	30
" Fasteners	49
Rails	50
DASHES	48
DELIVERY WAGON Locks	38
DICKERSON Eyelets	22
DIES, Grommet	70, 84
DOOR Fixtures	37
Locks	38
Molding	45
Stops	37
DOVETAILS	37
DRAINERS, Umbrella	46
Floor	46
DRAW Gauges	82
Knives	84
DRESSINGS, Harness	76
Top	76
DRILLS, Colored Cotton	6
Enameled	2
Rubber	2
DRILLS, Bit Stock	84
DRIVING Lamps	58
DROP Handles	41
DUCKS, Cotton	8
Enameled	2
Heath's Enameled	2
" Rubber	3
Rubber	3
DUST Hoods	30
DUSTERS, Feather	95
Painters'	91

E

	§
EDGE Ink	76
Tools	80
ELASTIC Button Holes, Talcott's	22
ENAMELED Cloths	2
Drills	2
Ducks	2
Muslins	2
ENDS, Canopy Standard	20
Shaft Socket	60
ENGLISH Moleskin	2
ESCUTCHEON Pins	67
EXCELSIOR	75
EXTENSION Top Braces	14
Tops	27
EYELETS, Knob	22
Lace	34
Silk	34

F

	§
FABRICS, Auto	1
FASTENERS, Apron	49
Automobile Curtain	23
Canopy Top Curtain	23
Curtain	23
Dash Pocket	49
Glass Frame	36
Glove Button	23
Laudau Top	44
Patent Button Needle	85
Tailboard	44
Toe Carpet	52
Whip Socket	56
FEET, Dash	49
FELTS, Axle	92
FENDER IRONS, Seat	51
FENDERS, Automobile	51
Phaeton	51
Seat	51
Surrey	51
FILES	84
FINGER IRONS, Lamp	59
FINISHED Neckyokes	64
FINISHERS, Molding	45
FINISHING Nails	34
Wheels	80
FIXTURES, Door	37
Landau	39
Window	36
FLAPPERS, Landau	37
FLEXIBLE Glass	25
FLOOR Drainers	46
FOOT Rests	46
Warmers	46
FOOT-BOARD Handles	43
Molding	45
FOOT CHAIN, Tailboard	44
FOOTMAN Loops	44
FRAME Fasteners, Glass	36
Lifts, Glass	36
Plates, Glass	36
Rests, Glass	36
FRAMES, Spring	73
FRAMING Cloth	6
FRINGE	33
FROGS	34

G

	§
GIMP Tacks	68
GIMPS, Leather	5
GINGHAM	8
GLASS, Flexible	25
GLASS Slickers	84
GLASS FRAME Fasteners	36
Lifts	36
Molding	45
Plates	36
Rests	36
GLOVE Button Fasteners	23
GLOVERS' Needles	85
GLUE, Dry	76
Liquid	76
GONGS	47
GOOSE-NECKS	15
GREASE, Axle	93
GROMMET Dies	70, 84
Sets	70, 84
GROMMETS	70
GUARD Strings	34
GUARDS, Panel	52

H

	§
HACK-SAW Blades	84
Frames	84
HAFTS, Awl	79, 80
HAIR, Curled	75
HAIR Pickers	87
HAMMERS, Nail	84
Riveting	81
Trimmers'	81
Upholsterers	81
HAND Mirrors	46
HANDLE Nuts	43
Washers	43
HANDLES, Club Door	40
Drop Door	41
Footboard	43
Inside Door	42
Lever Lock	42
Pull-To	42
Tonneau Side	43
Wagon	43
HARNESS Awl Blades	79
Buckles	77
Dressings	76
Leather	5
Needles	85
Oils	76
Rings	78
HARRAL CLOTH	3
HEAD Knives	82
Linings	6
Screws, Celluloid	36
HEARSE Lamps	57
HEARSE DOOR Locks	38
Springs	38
HEATERS, Carriage	46
HEATH'S Enameled Duck	2
Leather Cloth	2
Rubber Duck	3
HIDES, Leather	5
HIGGIN'S Adj. Fasteners	23
HINGES, Back Flap	37
Coach	37
Concealed	37
Curved	37
Straight	37
HOLDEN'S Adj. Storm Aprons	30
HOLDER Tassels	34
HOLDERS, Curtain Cord	35
Parasol	46
Rein	56
Umbrella	46
HOODS, Dust	30
HOOKS, Apron	49
Boot	49
Canopy Top	23
Cup	23
Curtain	35
Rein	56
HUB BAND Nails	94
HUB BANDS, Plated	94

I

	§
IMMITATION Dash Leather	2
Spanish Leather	4
Stitch Molding	45
INK, Edge	76
INSIDE Handles	42
Handle Nuts and Washers	43
IRONS, Canopy Top	20

*See Paragraphs:—"Numbering System" and "Alphabetical Index" in INTRODUCTION AND EXPLANATION for method of use.

For Additions and Revisions see § (Section) 96.

*ALPHABETICAL INDEX Continued

J

	§
JOINT Ends	14
JOINTS, Concealed	14
Stump	14
Top	14

K

	§
KERATOL Top Leather	4
KEYHOLES Concealed	38
KEYS, Concord	21
KICKING STRAP Loops	44
KNIFE Strops	84
KNIVES, Trimmers'	82
KNOB Eyelet Punches	23, 84
Eyelets	22
KNOBS, Carriage	21
Celluloid Screw	36
Ventilating	36

L

	§
LACE Eyelets	34
Frogs	34
Plates	36
LACES, Broad	34
Pasting	34
Seaming	34
LAMP Accessories	59
Black	90
Burners	59
Finger Irons	59
LAMPS, Carriage	57
Driving	58
Hearse	57
Stage	57
LANDAU Fixtures	39
Flappers	37
Top Fasteners	44
LAZY BACKS	32
LEAD, White	90
LEATHER, Artificial	4
Beeswing	5
Binding or Tipping	5
Bow or Railing	5
Breeching	5
Caleche	5
Chaso	4
Collar	5
Dash	5
Fancy Trimming	5
Harness	5
Imitation Dash	2
" Spanish	4
Kcratol Top	4
Landau	5
Moroccoline	4
Natural	5
Railing or Bow	5
Shaft	65
Tipping or Binding	5
Top	4, 5
Victoria	5
LEATHER Cloth, Heath's	2
Gimps	5
LEVELS	84
LEVER-LOCK Handles	42
Strikers	38
LEVER Locks	38
LEVERS, Catley's Top	19
LIFTS, Glass Frame	36
LIGHTS, Curtain	25
LIGNUMVITAE Slickers	84
LIMOUSINE Accessories	46
LINEN Thread	71
LINING Nails	67
LININGS, Head	6
Slip	1
LOCKER Molding	45
LOCKS, Automobile Door	38
Box or Mortise	38
Carriage Door	38
Coach Door	38
Delivery Wagon	38
Hearse Door	38
Spring	38
Tailboard Box	38
Tonneau Door	38
Top Lever	38
Undertakers' Wagon	38
LOOPS, Auto Snap	44
Buckle	24
Check	78
Cushion Strap	44
Footman	44
Kicking Strap	44
Safety	78
Snap	44, 78
Strap	24
LUBRICANTS, Axle	93
LUNCH Baskets	46

M

	§
MACHINES, Button	87
Creasing	87
Dash	87
Pony Rivetiug	70
Sewing	87
Splitting	87
MACKINTOSHED Materials	1
MAGNETS	95
MAJOR CLOTH	3
MALLETS, Fibre Head	81
MATS, Cocoa	9
Rubber	9
MATTING, Rubber	9
MILK WAGON Handles	43
MIRRORS, Hand	46
MOLDING, Automobile	45
Body	45
Dash	49
Footboard	45, 96
Glass Frame	45
Imitation Stitch	45
Locker	45
Rattan	45
Rubber Mat	45
Vehicle Door	45
MOLDING Finishers	45
MOLESKIN, English	2
MOROCCOLINE	4
MOROCCOS	7
MORTISE Locks	38
MOSS	75
MUSLIN, Enameled	2
Unbleached	8

N

	§
NAILS, Brass	67
Fiuishing	34
Hub Baud	94
Lining	67
Name Plate	94
Saddle	67
Spring Strip	95
Trimmers'	67
Wire	95
NAME PLATE Nails	94
NATURAL Leathers	5
NECKYOKE Centers	64
Tips	64
NECKYOKES, Finished	64
NEEDLES, Collar	85
Glovers'	85
Harness	85
Patent Button	85
Tufting	85
NIPPERS, Cutting	84
NUT LOCKS, Top Prop	17
NUTS, Inside Handle	43
Top Prop	17

O

	§
OFFSETS, Canopy Standard	20
OIL, Axle	93
Harness	76
OIL Carpets	9
Stones	84

P

	§
PAD Awls	79
PADS, Toe	52
PAINT Brushes	91
Presses	90
PAINTERS' Dusters	91
Supplies	90
PAINTS, Prepared	90
PANEL Guards	52
PAPER, Back Stay	74
Sand	90
PARASOL Holders	46
PASTE, Trimmers'	76
PASTING Laces	34
PATCHES, Curtain	22
PATENT Button Needles	85
Button Needle Fasteners	85
Leather Compasses	84
" Tools	80
Nut Locks, Pike's	17
PENCILS, Carpenters'	95
PERFECTION Curtain Lights	25
Trace Holders	96
PHAETON Fenders	51
PICKERS, Hair	87
PIKE'S Patent Nut Locks	17
PINCERS	84
PINS	95
PINS, Escutcheon	67
PIVOT Springs	73
PLATED Hub Bands	94
Screws	36
PLATES, Glass Frame or Lace	36
Sill	37
PLYERS, Saddlers'	84
Universal	84
POCKET Aprons, Dash	30
POLE, Crabs	62
Tips	61
POSTS, Trace	63
PRICK Punches	83
PRICKING Carriages	80
Wheels	80
PROP-BLOCK Rubber	17
Washers	18
PROP Blocks	18
PROPS, Top	16
PULLS, Bell	47
Curtain	34
PULL-TO Handles	42

*See Paragraphs:—"Numbering System" and "Alphabetical Index" in INTRODUCTION AND EXPLANATION for method of use.

For Additions and Revisions see § (Section) 96.

*ALPHABETICAL INDEX—Continued

	§
PUMICE Stone	90
PUNCHES, Bag	83
Curtain Fastener	23
Knob Eyelet	23, 84
Prick	83
Revolving	83
Round	83
Solid	83
Trace	83

Q

	§
QUICK SHIFTERS	66

R

	§
RAILS, Arm	15
Dash	50
Robe	46
Shifting	15
RASPS	84
RATTAN Molding	45
Saddle Reeds	45
REAMERS	84
REIN Holders	56
Hooks	56
RESTS, Bow	18
Foot	46
Glass Frame	36
Top Prop	18
REVOLVING Punches	83
RINGS, Apron	49
Harness	78
RIVET Sets	84
RIVETING Hammers	81
Machines	70
RIVETS AND BURRS, Copper	70
RIVETS, Bow Socket	12
Coach Joint	14
Top Prop	16
Tubular	70
ROBE Rails	46
ROLLERS, Curtain	35
ROLL-UP Straps	24
ROUND Knives	82
Punches	83
ROUNDERS	87
RUBBER, Anti-Rattler	66
Bow Rest	17
Prop Block	17
Top Prop	17
RUBBER Apron Cloths	3
Cloths	3
Drills	3
Ducks	3
Head Tacks	36
Mat Molding	45
Mats	9
Matting	9
RUBBERS, Boot	52
RUBBING Brick	90
RULES, Saddlers'	84
RUNNING BOARD Molding	45, 96
RUNNERS, Curtain Cord	35

S

	§
SADDLE Nails	67
SADDLERS' Awl Blades	79
Compasses	84
Pincers	84
Plyers	84
Rules	84
SAFETY Loops	78
SAND Paper	90
SATINS	7
SAWS	84
SCREW Clamps	86
Drivers	80
Eyes, Curtain	22, 23
" Bright Wire	23
Knobs, Celluloid	36
Knob Wrenches	84
SCREWS, Brass	36
Celluloid	36
Iron	36
Plated	36
SCRIMS	74
SEAMING Cord	72
Laces	34
SEAT Backs	32
Cushions	31
Fender Irons	51
Fenders	51
SEATS, Third	31
SEPARATORS, Bow	13
SETS, Grommet	70, 84
Rivet	84
SEWING Machines	87
SHAFT Leathers	65
Socket Ends	60
Stops	63
Straps	65
Tips	60
Tug Stops	63
SHAVES, Strap	82
SHEARS, Bent Trimmers'	83
SHIFTING Rails	15
SHIFTING RAIL Attachments	15
Clips and Bolts	15
SHOE BUCKLES	77
SHOEMAKERS' Wax	72
SILK Eyelets	34
SILK, Curtain	7
Spool	71
SILL Plates	37
SKATE Buckles	77
SKINS, Chamois	90
Morocco	7
SLAT Irons	11
SLATS, Wagon Top	10
SLICKERS, Glass	84
Lignumvitae	84
SLIDES, Window Lace	36
SLIP Linings	1
SNAP Loops, Auto	44, 78
SNAPS, Auto Top Stay	44
Loop Eye	78
SOAPSTONE	95
SOCKET ENDS, Shaft	60
SOCKETS, Arm Rail	15
Bow	12
Canopy Top	20
SPANISH LEATHER, Imitation	4
SPEAKING Tubes	46
SPLITTING Machines	87
SPONGES	90
SPOOL Silk	71
SPREADERS, Bow	13
SPRING Frames	73
Locks	38
Strips, "Twentieth Century"	73
Twine	72
SPRING BUFFER Straps	65
SPRINGS, Back	73
Boot	52
Cushion	73
Hearse Door	38
Pivot	73
Seat	73
Window	36
SQUARE POINT Knives	82
SQUARES	84
STAGE Lamps, Concord	57
STANDARDS, Back	15
STAY Webbing	74
STAYS, Back	19
STITCHING HORSES	87
STONE, Pumice	90
STOPS, Door	37
Shaft	63
Tug	63
STORM Aprons	30
STRAP Shaves	82
STRAP LOOPS	24
STRAP LOOPS, Cushion	44
Kicking	44
STRAPS, Curtain	24
Evener	65
Roll-Up	24
Shaft	65
Spring Buffer	65
STRAWBOARD	74
STRIKERS, Lever Lock	38
STRIPING Brushes	91
Colors	89
STRIPS, Window	36
STUFFERS	84
STUMP JOINTS	14
SUN-SHADE Extras	30
SUN SHADES, Adj. Carriage	30
Wagon	30
SUPPORTS, Curtain Roller	35
SURREY Fenders	51

T

	§
TACKS, Cloth Covered	68
Gimp	68
Laco	68
Leather Covered	68
Milonite	68
Rubber Head	36
Trimmers'	68
TAILBOARD Box Locks	38
Fasteners	44
Foot Chains	44
TAPES, Steel Pocket	84
TAPS, DIES AND HOLDERS	84
TARPAULIN	8
TASSELS, Curtain	34
Holder	34
THIRD SEATS	31
THREAD, Cotton	71
Linen	71
Silk	71
TICKLERS	80
TIPS, Neckyoke	64
Pole	61
Shaft	60
Whiffletree	63
TOE Pads	52
TOE CARPET Fasteners	52
TOILET Cases	46
TONNEAU Door Locks	38
Side Handles	43
TOOLS, Claw	43
Curtain Fastener	23
Edge	80
Patent Leather	80

*See Paragraphs:—"Numbering System" and "Alphabetical Index" in INTRODUCTION AND EXPLANATION for method of use.

For Additions and Revisions see § (Section) 96.

*ALPHABETICAL INDEX Coutinned

§

TOP Braces 14
Coverings 1
Dressings 76
Fasteners, Landau..... 44
Joints 14
Leather 4
Lever Locks 38
Levers, Catley's 19
Linings 1
Prop Nut Locks..... 17
" " Wrenches 84
" .Nuts 17
" .Rests 18
" Rivets 17
" Rubber 17
" Washers 17
Props 16
TOPS, Buggy 26
Canopy 28
Express 28
Extension 27
TOP STAY Snaps, Auto..... 44
TRACE Attachments 63, 96
Holders 63, 96
Posts 63
Punches 83
TRAYS, Ash 46
TRIMMERS' Clips..... 86
Hammers 81
Nails 67
Paste 76
Tacks 68
Vises 86
TRIMMING Leather 5
TRIMMINGS, Fancy Inside..... 34
TRUCK Bows 10
TRY-SQUARES 84
TUBES, Bow Socket 12
Speaking 46
Water 46
TUBULAR Rivets 70
TUFTING Buttons 69
Needles 85
Twine 72
TUFTS, Button 69
Hand Made 69
TUG STOPS, Shaft..... 63
TWINE, Spring 72
Tufting 72

U

§

UMBRELLA Drainers..... 46
Holders 46
UMBRELLAS 29
UNDERTAKERS' WAGON Locks.. 38
UPHOLSTERERS' Hammers..... 81

V

§

VALANCE Clamping Tools.....19, 86
VALANCES 19
VARNISH Brushes..... 91
VARNISHES 88
VENTILATING Knobs..... 36
VISES, Trimmers' .....'86

W

§

WADDING 75
WAGON Bows 10
Handles 43
Sun Shades 30
Top Slats 10
Umbrellas 29
WASHER Cutters 83
WASHERS, Axle 92
Bow Rest 18
Clinch Button 69
Coach Joint 14
Handle 43
Top Prop 17
WASTE, Cotton 95
WATER Tubes 46
WAX, Bees-..... 72
Shoemakers' 72
WEBBING, Stay 74
WHEEL Guards 46
WHEELS, Finishing 80
Pricking 80
WHIFFLETREE Tips 63
WHIPCORDS 6
WHIP SOCKET Fasteners..... 56
WHIP SOCKETS, Leather Covered. 55
Metal 53
Wood 54
WHISK BROOMS..... 95
WHITE LEAD..... 90
WINDOW, Anti-Rattlers..... 36
Fixtures 36
Lace Slides 36
Springs 36
Strips 36
WOODS, Canopy Top 10
Cushion 73
WRENCHES, Miscellaneous 84
Screw Knob 84
Top Prop Nut..... 84

*See Paragraphs:—"Numbering System" and "Alphabetical Index" in INTRODUCTION AND EXPLANATION for method of use.

For Additions and Revisions see § (Section) 96.

CLOTHS, FABRICS AND LEATHERS

LININGS,

COVERINGS,

LEATHERS,

AND CARPETS

GENERAL INFORMATION

Subdivision of "Cloths, Fabrics and Leathers"

AUTO FABRICS are used for Auto Top Coverings and for Slip Linings.

MACKINTOSHED CLOTH is a fabric containing an interlayer or rubber material, which renders it water-proof and non-temperature conducting.

SLIP LININGS.—Auto Upholstery coverings,—serve to protect upholstery and also add much to appearance of vehicle.

ENAMELED CLOTH.—Cotton cloth, coated one side in various colors, and grained. Used in top, cushion and seat back coverings, buggy boots, etc.

ENGLISH MOLESKIN (enameled) is a strong twilled cotton fabric, cropped or shorn, (before dyeing), the resulting nap or pile being horizontal or flat, that is brushed down, the face enameling process being similar to that of other enameled cloths, the surface, however, being given a glazed finish similar to patent leather.

LEATHER CLOTH.—Heavy cotton duck, one side heavily coated and grained, imitating enameled leather; used as a substitute for enameled cloth in high-class work, and in the tropics as a substitute for leather.

RUBBER CLOTH.—Cotton cloth, one side rubber coated. With the exception of apron cloth, grained to imitate enameled leather. Used in construction of moderate price tops and for storm aprons and dust hoods, buggy boots, cushions, etc.

HARRAL CLOTH and MAJOR CLOTH.—Rubber-coated wool cloths. The soft wool fiuish of the back of these cloths serves as an excellent substitute for lining of curtains, for canopy and buggy tops, dust hoods, etc.

APRON MATERIALS.—A rubber cloth usually of smooth fiuish. Used for storm aprons and automobile and other vehicle dust hoods.

ARTIFICIAL LEATHER is a material, the base of which is a cotton fabric, and the face of which is coated and finished in imitation of various colored leathers. Used in upholstery work.

NATURAL LEATHER is manufactured from "spready" hides of beef cattle and subjected to certain processes of tanning, buffing, splitting and finishing or graining. Used in covering high-class tops and in upholstering.

Carriage Leathers, necessarily being of high quality, are usually manufactured from the best oak tanned hides into various grades designated as Hand, Machine, and Deep Buffed, and "Splits."

HAND BUFFED LEATHER is leather from the surface of which a thin crust has been removed by hand, with the object in view of carefully preserving all of the natural characteristics of the leather.

MACHINE BUFFED LEATHER is subjected to a similar process by machine, naturally less exact and discriminating.

DEEP BUFFED LEATHER has been subjected to the removal of a comparatively heavy crust or buffing.

"SPLITS" is a term applied to the center or back section of the hide after the portion constituting the hand or machine buffed leather has been removed or split from the hide.

LEATHER GIMPS are manufactured from the light buffing or crust taken from the natural leather. Used to give fiuish or as facings for seat backs, etc.

HARNESS LEATHER is leather which has not been subjected to the buffing or splitting process. It is of dull black, oiled finish. Used in making straps, etc.

CARRIAGE CLOTHS are used in top lining and in upholstering.

COTTON DRILL is a pure cotton fabric, suitable for lining cheap tops, etc.

ALL WOOL HEAD LINING is a pure wool fabric of fast dye, the lighter weights of which are adapted to top head lining and the heavier weights to body upholstering.

DOMESTIC, ENGLISH and SUPERFINE CLOTHS are all-wool fabrics of pure indigo dye and absolutely fast color, suitable for either head lining or body upholstering cloth, the heavier weights being particularly adapted to work of high quality.

FRAMING CLOTH is a wool fabric used for covering carriage window frames and for interior hearse trimmings.

WHIPCORD is a cotton or wool fabric, each weft thread of which is of a mixed light and dark colored yarn, so twisted as to create an appearance, on the face of the fabric, of alternating light and dark diagonal lines. Used for cushion covers and falls, top lining, to cover seat backs, etc.

BEDFORD CORD is a wool fabric, so woven as to leave the surface rigid in the direction of the weft, but presenting a firm surface as distinguished from corduroy. Used for seat and back covers, and seat falls.

CORDUROY is a ribbed cotton fabric, woven with a pile or nap which is so cut as to leave the surface ridged in the direction of the warp, thus giving a sort of ridged velvetine appearance. Used as cushion and back coverings, body cloths, etc.

MOROCCO is a fine kind of leather prepared from goat skin. Morocco Skins have been used extensively for fine coach trimming and upholstering for many generations, and were originally imported from the Levant and the Barbary States, and the best grades of which are now manufactured in Germany and France.

SATIN is a heavy, closely woven silk, with a glossy surface, the weft of which is so hidden beneath the warp, as to present a close and smooth finish, thus being rendered more capable of reflecting light rays. Chiefly manufactured in France and Italy. Used to a limited extent in trimming closed vehicles.

COTTON DUCK is a textile fabric in which the weft threads pass over and under the warp threads in a regular succession, thus making a very fine, strong and closely woven fabric. This material is used as the basal fabric of enameled and rubber ducks and leather cloth. It is used in making heavy wagon covers and curtains, and where durable cushion and seat backs are desired, etc.

COTTON DRILL is a fabric having two threads in the warp and three in the filling; presenting a similar diagonal lined or ribbed appearance as in twill, in which the weft threads pass over one and under two or more warp threads, instead of over one and under the next in regular succession, as in plain weaving. This material is the basal fabric of enameled and rubber drills.

MUSLIN is a light weight cotton fabric of regular and close weave, being the basal fabric of enameled muslins, and usually used as a containing material for the padding on quarters of tops.

GINGHAM is a cotton fabric in stripes or checks, of regular weave, the yarn of which is dyed before weaving, as distinguished from "printed" fabrics. Used for dust covers for vehicles when stabled.

WILTON CARPET (so called because made originally at Wilton, England), is made of worsted yarn fixed in a foundation web of strong linen thread, the worsted, which alone shows on the upper surface, being drawn up in loops to form the pattern, the loops being so cut as to create an elastic velvet pile.

TAPESTRY CARPET is manufactured similarly to Wilton Carpet, except that the loops on the face remain uncut.

"Cut and Uncut" Tapestry Carpet differs from regular Tapestry Carpet in that a certain number of contiguous alternating rows are cut, producing an appearance of darker bands in contrast to the uncut portions.

Carpets, when used as a vehicle floor covering, are edged or bound with enameled cloth, leather or imitation leather, and when attached are fastened by means of eyelets and knobs, straps or other attachments.

OIL CARPETS are frequently used alone as vehicle floor coverings, but are very serviceable as a floor covering in conjunction with regular carriage carpets, when thus used, not only serving to preserve the carriage carpet, but also to render the floor of the vehicle very easy of cleaning or wiping up.

RUBBER MATTING is a very popular automobile floor covering. It is also very generally used for running board and step covers, the edges being usually fastened down and protected by angle brass molding. Makes an excellent covering for any vehicle floor during the rainy season and in humid climates.

RUBBER MATS serve as excellent auxiliary vehicle floor covering in humid climates and during the rainy season.

AUTO FABRICS

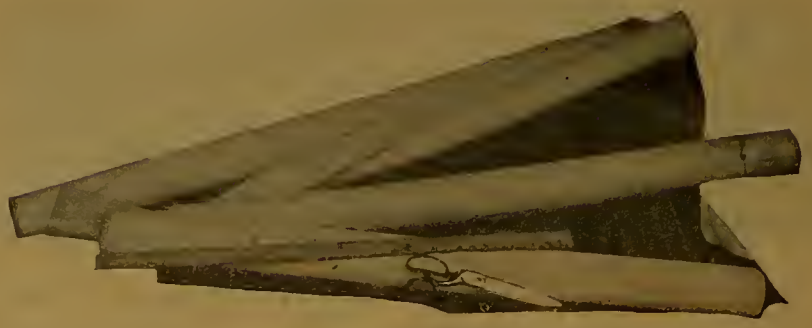
Catalog Number	Suitable for	Ply	(FACE) Finish	Color	Texture	Grain	(BACK) Color	Texture	Width Inches	Per Yard
*M 101 A	Top Coverings	Double	Dull	Black	.....	Leather	Dark Grey	Whipcord	54	$3.45
*M 102 A	"	Double	Dull	Black	.....	Leather	Light Tan	Whipcord	54	3.45
*M 106 B	"	Double	Dull	Black	.....	Leather	Dark Drab	Drill	54	3.45
*M 108 B	"	Double	Dull	Black	.....	Scratch	Light Drab	Basket Cloth	54	4.50
F 331	"	Single	Dull	Black	.....	Scratch	Blue	Duck	54	3.00
F 332	"	Single	Dull	Black	.....	Scratch	Green	Duck	54	3.00
F 333	"	Single	Dull	Black	.....	Scratch	Maroon	Duck	54	3.00
P 197	"	Single	Dull	Black	.....	Scratch	Black	Duck	54	2.25
F 103 B	"	Single	Bright	Black	.....	Scratch	Light Grey	Whipcord	54	2.25
F 105 B	"	Single	Bright	Black	.....	Scratch	Light Tan	Whipcord	54	2.25
*F 205 B	"	Double	Dull	Black	.....	Scratch	Tan	Whipcord	54	3.00
M 175 W	"	Single	Dull	Black	.....	Scratch	Maroon	Duck	54	2.25
C 441	"	Single	Bright	Black	.....	Long	Blue	Drill	50	1.95
C 442	"	Single	Bright	Black	.....	Long	Green	Drill	50	1.95
C 443	"	Single	Bright	Black	.....	Long	Drab	Drill	50	1.95
*P 196	"	Double	Dull	Black	.....	Small Peb.	Black	Drill	54	3.75
C 175	"	Single	Dull	Dk. Maroon	.....	Pebble	Dark Maroon	Drill	50	2.25
C 178	"	Single	Dull	Lt. Maroon	.....	Pebble	Light Maroon	Drill	50	2.25
C 182	"	Single	Dull	Tan	.....	Pebble	Tan	Drill	50	2.25
C 130	"	Single	Dull	Auto Red	.....	Pebble	Red	Drill	50	2.25
*P 173	"	Double	Dull	Red	.....	Small Peb.	Light Red	Drill	54	3.75
*M 102 J	Top Coverings or Slip Linings	Double	.....	Grey	Whipcord	.....	Grey	Whipcord	54	2.25
*M 131 L	"	Double	.....	Steel Grey	Mohair	.....	Blue	Serge	54	5.55
*M 115 L	"	Double	.....	Black	Mohair	.....	Black	Twill	54	6.00
*M 156 L	"	Double	.....	Neut. Brwu	Serge	.....	Dark Grey	Whipcord	54	4.50
*M 220 L	"	Double	.....	Light Tau	Moleskia	.....	Light Tan	Moleskin	60	5.25
*M 200 J	"	Double	.....	Tan	Khaki	.....	Tnn	Khaki	54	2.25
*M 205 J	"	Double	.....	Dark Grey	Twill	.....	Dark Grey	Twill	54	2.40
*M 201 L	"	Double	.....	Dark Grey	Sateen	.....	Dark Grey	Sateen	60	4.50
*M 160 M	"	Double	.....	Dark Grey	Sateen	.....	Light Tan	Whipcord	54	4.50
*W 150 S	"	Single	.....	Tan	Duck	.....	Tan	Duck	50	2.00
*W 160 S	"	Siugle	.....	Tan	Duck	.....	Tan	Duck	60	2.50

As the styles and qualities are constantly changing, we have listed above only Auto Fabrics in general use. Snmples and prices of other styles will be furnished on request.

*Mackintoshed.

Full bolts contain from 50 to 60 yards

ENAMELED CLOTHS



"WALCO" QUALITY	FACE (Finish)	FACE (Color)	FACE (Grain)	BACK (Color)	Width Inches	Per Yard
Ducks	Bright	Black	Pebble	White	50	$0.60
	Bright	Black	Pebble	Colored†	50	.71
	Bright	Lt. Green	Pebble	White	50	.75
	Dull	Green	Pebble	White	50	.75
	Dull	Brown	Pebble	White	50	.75
	Dull	Maroon	Pebble	White	50	.75
	Dull	Russet	Pebble	White	50	.75
	Bright	Black	Pebble	White	54	.66
	Bright	Black	Pebble	Colored†	54	.77
	Dull	Green	Pebble	White	54	.81
	Dull	Brown	Pebble	White	54	.81
	Dull	Maroon	Pebble	White	54	.81
	Dull	Russet	Pebble	White	54	.81
	Bright	Black	Pebble	White	60	.89
	Bright	Black	Pebble	Colored*	60	.99
	Dull	Green	Pebble	White	60	1.05
	Dull	Brown	Pebble	White	60	1.05
	Dull	Maroon	Pebble	White	60	1.05
Drills	Glazed	Black	.....	Tan	45	.59
	Glazed	Black	.....	White	50	.48
	Dull	Black	Pebble	White	50	.48
	Bright	Black	Pebble	White	50	.48
	Bright	Black	Pebble	Colored*	48	.59
	Bright	Lt.Green	Pebble	White	50	.63
	Dull	Dk.Green	Pebble	White	50	.63
	Dull	Brown	Pebble	White	50	.63
	Dull	Maroon	Pebble	White	50	.63
	Dull	Russet	Pebble	White	50	.63
	Bright	Black	Pebble	White	54	.56
	Bright	Black	Pebble	Colored*	54	.66
	Dull	Green	Pebble	White	54	.71
	Dull	Maroon	Pebble	White	54	.71
	Dull	Russet	Pebble	White	54	.71
Moleskin English	Glazed	Black		Tan	45	1.32

"WALCO" QUALITY	FACE (Finish)	FACE (Color)	FACE (Grain)	BACK (Color)	Width Inches	Per Yard
Muslins	Glazed	Black	.....	White	45	$0.32
	Bright	Black	Pebble	White	45	.32
	Bright	Lt.Green	Pebble	White	45	.40
	Dull	Dk.Green	Pebble	White	45	.40
	Dull	Brown	Pebble	White	45	.40
	Dull‡	Black	Smooth	White	45	.32
	Dull‡	Black	Pebble	White	45	.32
HEATH'S QUALITY						
Ducks	Bright	Black	Lrge Peb	White	50	.75
	Bright	Black	Lrge Peb	Colored*	50	.95
	Dull	Green	Lrge Peb	White	50	1.00
	Dull	Maroon	Lrge Peb	White	50	1.38
	Bright	Black	Lrge Peb	White	54	.90
	Bright	Black	Lrge Peb	Colored*	54	1.05
	Bright	Black	Lrge Peb	White	60	1.10
	Bright	Black	Lrge Peb	Colored*	60	1.40
Extra Quality Leather Cloth	Bright	Black	Lrge Peb	White	50	1.25
	Bright	Black	Lrge Peb	White	54	1.40
	Bright	Black	Lrge Peb	White	60	1.55
XX Extra Quality Leather Cloth	Bright	Black	Lrge Peb	White	50	1.40
	Bright	Black	Lrge Peb	White	54	1.55
	Bright	Black	Lrge Peb	White	60	1.70
Imitation Dash Leather	Glazed	Black	.....	Tan	50	1.60

Imitation Dash Leather is a heavy cotton duck with bright face like Patent Leather.

†Green, Blue or Brown. ... .‡Imitation Rubber.
*Green or Blue.

Full Bolts contain 12 yards.

RUBBER CLOTHS

WALCO QUALITY

White Back Duck

28	oz.,	Leather	Grain,	50	inches	wide.....	Per yard,	$1.10
30	"	"	"	"	"	.....	"	1.15
32	"	"	"	"	"	.....	"	1.20
34	"	"	"	"	"	.....	"	1.25
36	"	"	"	"	"	.....	"	1.30
40	"	"	"	"	"	.....	"	1.40
34	"	"	"	54	inches	wide.....	"	1.35
36	"	"	"	"	"	.....	"	1.40

White Back Drill

18	oz.,	Leather	Grain,	50	inches	wide.....	Per yard,	$0.75
20	"	"	"	"	"	.....	"	.80
22	"	"	"	"	"	.....	"	.85
24	"	"	"	"	"	.....	"	.90
26	"	"	"	"	"	.....	"	.95
28	"	"	"	"	"	.....	"	1.00
30	"	"	"	"	"	.....	"	1.05
32	"	"	"	"	"	.....	"	1.10
34	"	"	"	"	"	.....	"	1.15
36	"	"	"	"	"	.....	"	1.20
34	"	"	"	54	inches	wide.....	"	1.25
36	"	"	"	"	"	.....	"	1.30

Net Extras for Colored Back Duck and Drill

50 inches wide, 12c per yard; 54 inches wide, 15c per yard.

Stock Weights of Colored Back Duck and Drill

Duck:—Green, 50 ins. wide, 28, 30, 32, 34, 36 oz; 54 ins. wide, 34 and 36 oz.

Duck:—Blue, 50 ins. wide, 36 oz; Brown, 50 ins. wide, 28 and 30 oz.

Drill:—Green, 50 ins. wide, 18 to 36 oz. inclusive; 54 ins. wide, 34 and 36 oz.

Drill:—Blue, 50 ins. wide, 22, 24, 26 oz.; Brown, 50 ins. wide, 26 and 28 oz.

HEATHS EXTRA QUALITY

White Back Duck

38	oz.,	Large	Pebble	Grain,	50	inches wide..	Per yard,	$1.80
40	"	"	"	"	"	" ..	"	1.90
42	"	"	"	"	"	" ..	"	2.00
40	"	"	"	"	60	inches wide..	"	3.00

HARRAL CLOTH

Wool Faced Back

36 inches wide, Large Pebble Grain, Green or Blue Back	Per yard,	$1.90
50 inches wide, Large Pebble Grain, Green or Blue Back	"	2.15

MAJOR CLOTH

Cloth Back

38 inches wide, Large Pebble Grain, Green or Blue Back.....	Per yard,	$1.75
54 inches wide, Large Pebble Grain, Green or Blue Back.....	"	2.00

SPECIAL APRON MATERIALS

26 oz., Smooth Velvet Finish Face, White Back, 50 inches wide.....	Per yard,	$1.20
26 oz., Smooth Velvet Finish Face, Yale Plaid Back, 50 inches wide.....	"	1.50
26 oz., Smooth Velvet Finish Face, Printed Whipcord Back, 50 inches wide.....	"	1.50
26 oz., Smooth Dull Finish Face, Woven Whipcord Back, 54 inches wide.....	"	1.90
30 oz., Bright Pebble Grain Face, White Back, 50 inches wide.....	"	1.35

All of above 50 yards per bolt

ARTIFICIAL LEATHERS

Imitation Spanish Grain **Regular Grain**

	Catalog Number	(FACE) Finish	Color	Grain	(BACK) Color	Texture	Width Inches	Per Yard
Chase Leather	77	Dull	Dark Green	Pebble	Dark Green	Drill	50	$1.50
	77 X	"	" "	"	" "	Niagara Duck	50	1.40
	C 182	"	Med. Tan	"	Tan	Drill	50	1.50
	C 175	"	Dark Maroon	"	Maroon	"	50	1.50
	C 178	"	Light Maroon	"	"	"	50	1.50
	C 130	"	Auto Red	"	Light Red	"	50	1.50
Imitation Spanish Leather	A	"	Dk. Red & Black		Dark Red	Drill	50	1.90
	B	"	Brown & Black		Brown	"	50	1.90
	C	"	Lt. Green & Tan		Tan	"	50	1.90
	E	"	Dk. Green & Tan		"	"	50	1.90
	H	"	Dk. Tan & Black		"	"	50	1.90
Moroccoline	300	"	Black	Pebble	Green	Duck	54	1.90
	301	"	"	"	Green	Sateen	50	1.75
Keratol Top Leather	94 P	"	Black	Pebble	Green	Duck	54	2.00

All of above 25 yards per bolt

THE MANUFACTURE OF ARTIFICIAL LEATHER

Owing to the demand for leather being in excess of the supply, many fabrics have been introduced with the intention of supplying its place. An article of this sort, known under the name "leather cloth," was first produced in America about 1849. A textile fabric (generally unbleached cotton, calendered to make it smooth) is coated with linseed oil, turpentine, lampblack and other ingredients. It is then scraped to produce a uniform surface, dried in a heated oven, and passed between rollers covered with pumice dust to rub the composition smooth, these processes being repeated several times. Three or four coats of a sort of enameled paint are then applied. The grain of morocco leather is imitated by passing the cloth between grooved rollers; patterns in relief may be obtained by passing it through embossing rollers, as, for example, imitation Spanish Leather, the left-hand illustration above. Imitation leather has several advantages over leather proper, among which may be mentioned that however thin the Imitation Leather is, it requires considerable force to tear it; it is impervious to damp, moisture may remain long upon it without injuring it, and its polish is increased rather than decreased by friction.

NATURAL LEATHERS

TRIMMING LEATHER

"Walco" Best

Hand Buffed

Landau, Pebble or Long Grain, 60 ft. and over	Per ft.,	$0.53
Victoria, Pebble or Long Grain, " "	"	.48
Caleche, Pebble Grain, " "	"	.48
No. 1 Top, Pebble Grain, " "	"	.45
No. 1 Black Trimming, 50 ft. and over	"	.41
No. 1 Fancy Trimming,* " "	"	.42
Grain Dash, " "	"	.50
Collar, " "	"	.36
Railing or Bow, " "	"	.41
Beeswing, " "	"	.33
Breeching, " "	"	.36
Tipping or Binding, " "	"	.31

*Carried in Nos. 74, 75, 77, 78, 80.

TOP LEATHER

"Walco" Best

Deep Buffed

Top, 50 ft. and over	Per ft.,	$0.25
Black Trimming, " "	"	.24
Fancy Trimming,** " "	"	.25

**Carried in No. 77.

Splits

Top, 50 ft. and over	Per ft.,	$0.18
Black Trimming, " "	"	.17
Fancy Trimming,†† " "	"	.18
No 1 Hard Dash, " "	"	.20
No. 1 Soft Dash, " "	"	.20
No. 2 Soft Dash, " "	"	.18
No. 3 Soft Dash, " "	"	.16
Double Japanned Dash Leather, 50 ft. and over	"	.40

††Carried in No. 77.

"Walco" Best

Machine Buffed

No. 1 Top, 60 ft. and over	Per ft.,	$0.38
No. 2 Top, 50 ft. and over	"	.33
Special Top, " "	"	.27
No. 1 Black Trimming, 50 ft. and over	"	.35
No. 2 Black Trimming, " "	"	.34
Special Black Trimming, " "	"	.26
No. 1 Fancy Trimming,† " "	"	.36
Special Fancy Trimming,‡ " "	"	.27
Grain Dash, " "	"	.39
Collar, " "	"	.35
Railing or Bow, " "	"	.35

†Carried in all numbers.

‡Carried in No. 77.

"Circled W"

Machine Buffed

No. 1 Top, 60 ft. and over	Per ft.,	$0.35
No. 2 Top, 50 ft. and over	"	.30
Special Top, " "	"	.25
No. 1 Black Trimming, 50 ft. and over	"	.33
Special Black Trimming, " "	"	.24
No. 1 Fancy Trimming,‡‡ " "	"	.34
Special Fancy Trimming,*† " "	"	.25
No. 1 Soft Dash, " "	"	.19
No. 2 Soft Dash, " "	"	.17
No. 3 Soft Dash, " "	"	.15

‡‡Carried in Nos. 75, 77, 78, 80.

*†Carried in No. 77.

COLORS OF FANCY TRIMMING LEATHERS

No. 70, Light Green; No. 77, Dark Green; No. 77½, Med. Green; No. 15 C, Olive Green; No. 85, Light Green; No. 73, Dark Blue; No. 71, Dark Tan; No. 80, Med. Tan; No. 66, Light Tan; No. 74, Dark Maroon; No. 75, Med. Maroon; No. 78, Light Maroon; No. 99, Auto Red.

GIMPS

Natural Leather	Per roll,	$2.00
Imitation Leather	"	1.00

Colors: Nos. 77, 75, 80.

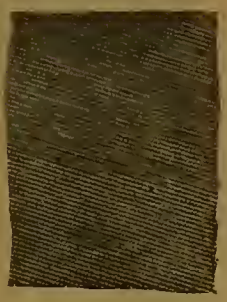
About 25 yards per roll

HARNESS LEATHER

No. 1 BB Light	Per lb.,	$0.43
No. 1 BB Med	"	.43
No. 1 BB Heavy	"	.43
No. 1 Thoroughbrace	"	.55
No. 1 Collar (For Shaft Trimming)	Per ft.	.27

CARRIAGE CLOTHS

Superfine Cloth



Whipcord

Bedford Cord

Corduroy

Standard Widths 54 Inches

COLORED COTTON DRILL

No.		100
50 inches wide	Per yard,	$0.50

Green.

300 Yards per Bolt.

UNION HEAD LINING

Nos.		150	250
54 inches wide	Per yard,	$0.60	.75

Green.

ALL WOOL HEAD LINING

Weight, ounces	5½	6	6½	7
Per yard	$0.90	1.00	1.05	1.15
Weight, ounces	8	9	10	12
Per yard	$1.30	1.45	1.60	1.90

Green or Blue. Fast Dye.

DOMESTIC PIECE DYE

Weight, ounces	8	10	12	14	16
Per yard	$1.60	2.00	2.40	2.80	3.20

Green or Blue. Indigo Dye.

DOMESTIC WOOL DYE

Weight, ounces	14	16	18	20	22
Per yard	$3.50	4.00	4.50	5.00	5.50

Green or Blue. Indigo Dye.

ENGLISH WOOL DYE

Superior Quality and Finish.

Weight, ounces	14	16	18	20	22
Per yard	$4.20	4.80	5.40	6.00	6.60

Green or Blue. Indigo Dye.

SUPERFINE MAROON CLOTH

No. 2120—Piece Dye	Per yard,	$3.00
No. 2200—Wool Dye	"	6.00

SUPERFINE DRAB CLOTH

No. 1080—Piece Dye	Per yard,	$2.25
No. 1120—Piece Dye	"	3.00
No. 1220—Wool Dye	"	7.00

SUPERFINE BLACK FRAMING CLOTH

No. 1200—Wool Dye	Per yard,	$6.00

*WHIPCORDS

No. 1221—Tan Color	Per yard,	$2.50
No. 1222—Light Grey	"	4.25

*BEDFORD CORDS

No. 1089—Olive Brown	Per yard,	$7.00
No. 1541—Light Tan	"	7.50
No. 1745—Dark Brown	"	4.00
No. 1751—Medium Grey	"	6.50

*As the styles and qualties of these lines are constantly changing, we list above only staple Whipcords and Bedford Cords, in addition to which we usually carry a number of other styles, samples and prices of which will be furnished on request.

CORDUROYS

No. 81—Green, 27 inches wide	Per yard,	$1.25
No. 81—Blue, " "	"	1.25
No. 81—Brown, " "	"	1.15
No. 81—Drab, " "	"	1.10

Full bolts contain from 35 to 60 yards, according to weight, except where otherwise specified

MOROCCOS, SATINS AND SILKS

MOROCCOS

Pebble Grain, Soft Finish

French XX	Green, Blue or Maroon.....Per doz.,		$60.00
German XXX	" " " ..... "		75.00
German XXXX	" " " ..... "		90.00

Prices of Long Grain and Special Color Moroccos furnished on request.

FRENCH SATINS

Silk Faced

Van Ness,	63 inches wide, Green or Blue...Per yard,		$10.00
Van Ness,	63 inches wide, Drab or Maroon. "		11.00

50 yards per bolt

CURTAIN SILKS

Golden Gate,	24 inches wide, Green.....Per yard,		$2.50
Van Ness,	20 inches wide, Green..... "		2.50
Van Ness,	" " Blue . ..... "		2.50
Van Ness,	24 inches wide, Green..... "		2.75
Van Ness,	" " Blue ..... "		2.75
Van Ness,	" " Drab ..... "		3.00
Van Ness,	" " Maroon ..... "		3.00

50 yards per bolt

The best moroccos are made of large goatskins, tanned in sumac. Those prepared for carriage trimmings are finished without oil or grease; the grain has a very fine finish; the color is imparted by means of a dye, applied with a brush. The Germans produce a very fine quality of moroccos, which, though higher-priced than others, are generally preferred for fine work. A very good grade is also imported from France. Sheepskins are also finished up as moroccos, but are entirely unsuited to carriage trimming.

See Section of ADDITIONS AND REVISIONS for new goods not shown in body of Catalog.

COTTON DUCK, TARPAULIN AND MUSLIN

WHITE COTTON DUCK

Width, Inches	36	40	44	50	54
No. 6—Per yard	$0.75	$0.83	$0.92	$1.04	$1.11
No. 8— "	.68	.75	.83	.95	1.02
No. 10— "	.60	.66	.74	.83	.90

Width, Inches	60	72	84	96	120
No. 6—Per yard	$1.28	$1.56	$1.92	$2.46	$3.14
No. 8— "	1.16	1.43	1.74	2.21	2.82
No. 10— "	1.02	1.25	1.52	1.92	2.45

100 yards per bolt.

TAN COTTON DUCK

Width, Inches	50	60
No. 9—Per yard	$1.00	$1.25

100 yards per bolt

TARPAULIN

No. 12—Walco, Medium, 50 inches wide	Per yard,	$1.50
No. 12— " " 54 inches wide	"	1.65
No. 12— " " 60 inches wide	"	1.85
No. 12— " " 72 inches wide	"	2.15
No. 18—Heath's, Extra Heavy, 50 inches wide	Per yard,	$1.75
No. 18—Heath's, Extra Heavy, 54 inches wide	"	1.90
No. 18—Heath's, Extra Heavy, 60 inches wide	"	2.10
No. 18—Heath's, Extra Heavy, 72 inches wide	"	2.50

This material is Cotton Duck, with a black oiled finish and black back. It is used on wagon tops and wherever a strong, waterproof material is required.

25 yards per bolt

MUSLIN

Plain, Unbleached, 36 inches wide.....Per yard, $0.25

50 yards per bolt

GINGHAM

Checked, 27 inches wide.....Per yard, $0.30

Suitable for Vehicle Dust Covers.

50 yards per bolt

CARPETS AND MATS

CARRIAGE CARPETS

Wilton, Plain

	Per yard
No. 40—Green, 22½ inches wide	$1.50
No. 40—Steel, " "	1.65
No. 40—Green, 27 inches wide	1.65
No. X—Green, 27 inches wide	2.00
No. X—Blue, " "	2.00
No. XX—Green, " "	2.50
No. XX—Steel, " "	2.75
No. XXX—Green, " "	3.25
No. XXX—Blue, " "	3.25
No. XXX—Maroon, " "	3.50
No. XXXX—Green, " "	3.50
No. XXXX—Maroon, " "	3.75
No. XXXX—Empire Red, 27 inches wide	3.75

Full rolls, 40 to 60 yards

Wilton, Figured

	Per yard
No. 919 —Two Tone Red, 27 inches wide	$2.25
No. 534D—Green and Red Figure, 22½ inches wide	1.75
No. 534D—Green and Red Figure, 27 inches wide	1.85
No. 536P—Green and Red Figure, 22½ inches wide	1.50
No. 536P—Green and Red Figure, 27 inches wide	1.65

Tapestry, Cut and Uncut

	Per yard
No. 540E—Plain Green, 22½ inches wide	$1.40
No. 540E—Plain Green, 27 inches wide	1.50
No. 542E—Green and Red Stripe, 22½ inches wide	1.40
No. 542E—Green and Red Stripe, 27 inches wide	1.50
No. 544E—Drab and Red Figure, 27 inches wide	1.60

Full rolls, 40 to 60 yards

OIL CARPETS

	Per yard
No. 51—Dark Green and Light Green, 27 inches wide	$0.75
No. 52—Dark Blue and Light Blue, " "	.75
No. 53—Maroon and Red, " "	.75
No. 54—Dark Green and Light Green, 31½ in. wide	.85
No. 55—Dark Green and Light Green, 36 inches wide	.90

30 yards per roll

COCOA MATS

No. 2—Best Fancy Wool Bordered, 16 x 27 inches . . . . . Per dozen, $30.00

Cocoa Mats are very serviceable as a substitute for or auxiliary to usual vehicle floor coverings doring the rainy season or in humid climates. Very popular in tropical and semi-tropical climates.

RUBBER MATTING AND MATS

PYRAMID MATTING

BLOCK MATTING

	Pattern	Color	Quality	Width	Per Pound
No. 2	Corrugated	Natural	Special	36 inches	$0.45
No. 3	Block	Natural	Standard	27 inches	.50
No. 5	Large Pyramid	White	Extra	36 inches	.75

All above ⅛ inch thick, and the weight per running yard is approximately 6 lbs. for 27 inch, and 8 lbs. for 36 inch.

Style A Style B Style C

Style D Style E Style F

PATTERNS OF MATS

¼ inch thick—Any of above Styles	Per square foot,		$0.75
⅜ inch thick— " "	"	"	1.00
½ inch thick— " "	"	"	1.25

Lettering Extra:—Natural Color, 25c per letter. Fancy Colors, 50c per letter.

In ordering, give outside dimensions of Mats. If irregular in shape, furnish paper pattern.

Made to Order Only

MAJOR TOP ACCESSORIES

BOWS,

SOCKETS,

TOP IRONS,

AND ACCESSORIES

GENERAL INFORMATION
Subdivision of "Major Top Accessories"

BOWS constitute the frame or support of vehicle tops, three or more being used.

SHORT BUGGY BOWS are used in connection with Bow Sockets and LONG BUGGY BOWS with Slat Irous.

AUTOMOBILE BOWS.—Used in same manner as Buggy Bows with Bow Sockets or Slat Irons, according to the leugth of bows. Owing to the large number of sizes and styles of automobile tops, regular Automobile Bows may sometimes be found to be too narrow, in which instance Express Bows may be substituted.

ROUND TOP FARM WAGON BOWS are used as a support or frame for removable cotton duck wagou eovers, heing attached to the wagon bed by means of bow staples, five generally constituting a set.

EXPRESS BOWS.—Used, together witb Wagon Top Slats, etc., in construeting frame-work of Express, Delivery and other wagon tops, such tops being stationary or non-folding. The flat top express bow is most commonly used, the oval top being frequently used, however, in tops for use in humid climates.

GYPSY BOWS.—Used in similar manner to Farm Wagon Bows, the shape affording more lateral spaee.

SAN FRANCISCO TRUCK TOP BOWS originated in San Francisco aud are used as the ribs which constitute the frame work for duck, tarpaulin or other covering, the whole constituting a top held in place by means of iron soeket pins which fit into sockets in the tops of the truck stakes and standards.

WAGON TOP SLATS.—Used in frame-work or skelton of various wagon tops.

CANOPY TOP WOODS.—Used in frame-work of Canopy Tops, a complete set eonsisting of 17 pieces having various functions.

SLAT IRON.—A steel forging which attaches to the wooden bows of folding tops. Serves to strengthen the bows aud as a means whereby the top is opened or closed, being attaehed to the body by attachments designated Goose-Necks. Various patterns are adapted to various styles and types of tops. The use of Slat Irons as a substitute for Bow Sockets is dietated solely by taste and preference.

BOW SOCKETS are used similarly to Slat Irons, except that short bows are use in conjunction with bow sockets, instead of long bows as in the ease of Slat Irons. Composed (as indicated by name), of several tubes, into tbe upper ends of which the bows are inserted. Various styles are adapted to various styles of tops.

BOW SOCKET TUBES are designated "front," "main," "hack," etc., according to funetion and relative position. Back tubes are re-enforced with steel stiffeners, but uevertheless, due to severe strain to which subjected, back tubes are most frequently broken.

BOW SEPARATORS or SPREADERS.—Used to maintain space between bows when top is folded, to prevent chafing of bow covering and top fabric. Necessary to use top stay strap with simple forms of separators; other forms, however, serve as how-stay as well as separator.

TOP BRACES are metallic hinged braces or supports, the "short joint" and the upper end of the "long joint" being attached to the top hy means of Top Props, and the lower end of the loug joint being fitted to the Prop Iron of the Shifting Rail, which, in turn is attached to the body seat. Top Braces maintain the top in an open and spread position. Sometimes a third joint, called the Outside Joint, is substituted for the Concealed Joint, its position being on a direct line with, and to the rear of, the Short Joint.

A Set of EXTENSION TOP BRACES consists of two long joints, two middle joints and two extension or front joints, the position of the latter being on a direct line with and in front of the middle joint. Used to spread extcusion tops. Styles of Top Braces vary, an example being the curved line PHAETON TOP BRACE.

CONCEALED JOINTS are attached on the inside of the rear and next preceding bow. Usually "concealed" in the side lace or flap of the top. Serve as brace joints. Sometimes substituted by Outside Joints.

STUMP JOINTS, JOINT ENDS and COACH JOINT RIVETS and WASHERS are intregal parts of top brace joints. Used in making bigh-grade and speeial length top braces.

SHIFTING RAILS are attached to vehicle seats as a means for attachment of vehicle tops, the slat iron or bow socket eye attaching to the Goose-Neek, and the top brace to the Prop Iron. Customarily supplied in halves to enable applieation to any width seat by welding together. Acorn End and solid back seat rails, however, are not welded when attacbing.

ARM RAILS and BACK STANDARDS.—To attach and support part seat baeks, arm rails only being used with solid back seats.

SHIFTING RAIL CLIPS, BOLTS and ATTACHMENTS serve to attach shifting rails to the Seat Irons.

TOP PROPS are attached to the bows and serve to reeeive the brace joint eyes, which are held in place on the top prop shank with TOP PROP NUTS, which latter are also used to hold Bow Socket in position on the shifting rail Goose-Neck and lower eye of the long top braee in position on the Prop Iron. Styles of Top Prop Nuts, a matter of taste with occasional exception, for example, Goose-Neck Prop Nut (so called, beeause usually applied at Goose-Neek), whieh is shaped like a carriage knob as a convenience for attaching storm or side curtains and aprons.

TOP PROP RIVETS.—Used at top brace hinge. Serve to match up fancy or odd top prop nuts, where latter are used.

NUT LOCKS and TOP PROP WASHERS are applied on top prop shanks to prevent top prop nuts from shaking off. Very necessary, especially on automobile tops.

BOW RESTS.—Fitted to shifting rail prop iron to form a rest and cushion for back bow where top is down. Simplest form made by slipping a section of BOW REST RUBBER over prop iron with square-hole and round-hole Bow Rest Washers on inside and outside, respectively. There are various other forms of Bow Rests, ranging from a one-piece combination of rubber and metal-washer, similar in appearance to the Bow Rest last described, to patent Spring Bow Rests, etc.

FRONT VALANCES are made of various materials according to taste or to the character of the top covering, and are used as a facing on the front edge of the front bow, thus imparting a finished appearance.

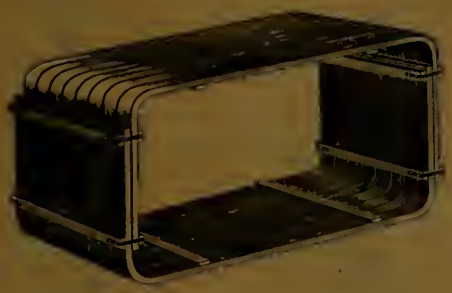
BACK STAYS.—Those two portions of the top extending vertically from the baek bow to the shifting rail, the functions of which are to hold the back bow in position and prevent the top from tilting forward. Sometimes supplemented by straps on automobile tops. Back Stays are usually, though not always, covered with same material as balance of top, the filling being Metallie Strips, Buckram or Back Stay Paper, or a combination of two or more of these stiffening materials.

CANOPY STANDARDS.—The steel supports of that type of stationary vehicle top, known as the Canopy Top. Front standards usually attached to front seat and rear standards to inside of vehicle bed at or near rear corners, rear standards, therefore, being longer than front standards. Obtainable welded, and Japanned, ready for application and also in halves, unpainted, consisting of branch ends and socket ends separate, thus affording opportunity to weld into any desired length. In latter form, front standards are furnished in same length as back standards, thus also affording opportunity to attach front standards to vehiele bed instead of seat, if desired. The tops and branches are bolted to the side and end pieces of the eanopy frame, the flattened upper ends of the right and left hand haek standards heing turned to left and right, respeetively, serving to brace the top and minimizing lateral movement.

CANOPY STANDARD ENDS and OFFSETS serve, in eonjunction with round iron or steel of suitable size, to make up standards in various sizes and styles.

CANOPY STANDARD SOCKETS, for the purpose of receiving the shank end of the standard, are obtainable in various syles in both wrought and malleable iron. Tapered hole sockets are used with tapered standard ends, object of taper being to take up wear and prevent rattling, by tightening nut.

VEHICLE BOWS



BUGGY (Short)

Size.	Height.	Width Outside.	Per Set (4)
¾x1¼-inch.	18-inch.	40-inch and under	$ .85
¾x1¼-inch.	18-inch.	41 to 48-inch, inclusive	.90
¾x1¼-inch.	18-inch.	50-inch and wider	1.65

Stock Widths—36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 48, 50 and 52-inch.

Four Set per Bundle.

BUGGY (Long)

Size.	Height.	Width Outside.	Per Set (4)
¾x1¼-inch.	46-inch.	All widths	$1.90

Stock Widths—34, 36, 38, 39, 40, 41, 42, 43, 44, 45, 46 and 48-inch.

Four Set per Bundle.

AUTOMOBILE

Size.	Height.	Width Inside.	Per Set (4)
⅞x1⅜-inch.	18-inch.	48, 50, 52-inch	$2.70
⅞x1⅜-inch.	18-inch.	54, 56, 58, 60-inch	2.85
1 x1½-inch.	18-inch.	60, 62, 64-inch	3.75
1 x1½-inch.	18-inch.	66, 68-inch	4.00
1⅛x1¾-inch.	18-inch.	69, 70, 71-inch	6.75
1⅛x1¾-inch.	46-inch.	60, 64, 69-inch (Long)	8.50

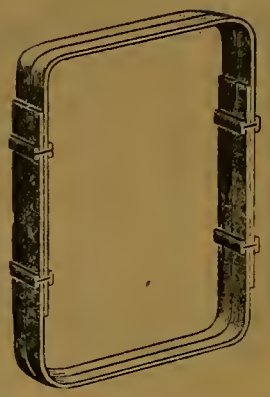
One Set Per Bundle.

ROUND TOP FARM WAGON

Size.	Height.	Width Inside.	Per Set (5)
½x2 -inch.	60-inch.	46-inch	$2.50
⅝x2¼-inch.	60-inch.	46-inch	3.50
⅝x2½-inch.	60-inch.	46-inch	4.00
¾x3 -inch.	60-inch.	46-inch	5.50
⅞x3 -inch.	60-inch.	60-inch	6.50

One Set Per Bundle.

VEHICLE BOWS



EXPRESS (Flat Top)

Size.	Height.	Width Inside.	Per Set (4)
¾x1½-inch.	60-inch.	46-inch and under	$3.60
¾x1½-inch.	60-inch.	48-inch and over	4.10
¾x1¾-inch.	60-inch.	46-inch and under	3.90
¾x1¾-inch.	60-inch.	48-inch and over	4.15
⅞x2 -inch.	60-inch.	46-inch and under	6.60
⅞x2 -inch.	60-inch.	48 to 54-inch	6.80
⅞x2 -inch.	60-inch.	56 to 60-inch	7.00
⅞x2 -inch.	72-inch.	46 inch and under	7.00
⅞x2 -inch.	72-inch.	48 to 54-inch	7.50
⅞x2 -inch.	72-inch.	56 to 60-inch	7.75
⅞x2 -inch.	72-inch.	62 to 66-inch	8.00

Two Set Per Bundle.

GYPSY

Size.	Height.	Width Outside	Offset	Height to Offset	Per Set (4)
¾x1¾-in.	60-in.	36, 38, 40-in.	3-in.	11-inch	$ 9.20
¾x1¾-in.	60-in.	42, 44-in.	3-in.	11-inch	11.00
¾x1¾-in.	60-in.	46, 48-in.	3-in.	11-inch	11.00

One Set Per Bundle.

EXPRESS (Oval Top)

Size.	Height.	Width Inside.	Per Set (4)
¾x1½-inch.	60-inch.	46-inch and under	$3.60
¾x1½-inch.	60-inch.	48-inch and over	4.10
¾x1¾-inch.	60-inch.	46-inch and under	3.90
¾x1¾-inch.	60-inch.	48-inch and over	4.15

Two Set Per Bundle.

BENT SAN FRANCISCO TRUCK TOP BOW

Size.	Raise.	Length Out to Out.	Each.
1¼x2¼-inch.	7½-inch.	7 feet, 6 inches	$2.00
1½x2¾-inch.	7½-inch.	7 feet, 6 inches	2.25

WAGON TOP SLATS (Poplar)

⅜x1½-inch.	10, 12 or 14 ft. long	Per lineal foot, $0.04
½x2 -inch.	10, 12 or 14 ft. long	" " " .05½
⅝x2½-inch.	10, 12 or 14 ft. long	" " " .07

CANOPY TOP WOODS

Set of 17 Pieces, shaped and ready to assemble.....Per Set, $5.00

A Set consists of the following parts:

2 End-pieces (Ash), 1" thick, 1½" deep, 1¼" arch, 4' 6" long.
2 Side-pieces (Ash), 1" thick, 1½" deep, 1¾" arch, 8' long.
5 Cross Ribs (Ash), 1" thick, 1" deep, 1¼" arch, 4' 6" long.
2 End Drip Moldings (Poplar), ½" thick, 2½" wide, 5' long.
2 Side Drip Moldgs. (Pop.), ½" thick, 2½" wide, 8' 6" long.
4 Top Slats (Spruce), ¼" thick, 2" wide, 8' long.

SLAT IRONS

No. 421
New York Pattern
Three Bow

No. 422
New York Pattern
Four Bow

No. 423
New York Pattern
Four Bow Exten.

No. 425
Philadelphia Pattern
Four Bow Exten.

No. 421—New York Pattern, 3 bow.....Per set, $1.50
No. 422—New York Pattern, 4 bow..... " " 1.75

No. 423—New York Pattern, Exten., 4 bow...Per set, $2.25
No. 425—Philadelphia Pattern, Exten., 4 bow.. " " 2.50

No. 432
Victoria Pattern
Three Bow

No. 430
Automobile Pattern
Three Bow

No. 431
Automobile Pattern
Four Bow Exten.

No. 483
Automobile Pattern
Four Bow Exten.

No. 432—Victoria Pattern, 3 bow.....Per set, $3.75
No. 430—Automobile Pattern, 3 bow..... " " 4.00

No. 431—Automobile Pattern, Exten., 4 bow..Per set, $7.50
No. 483—Automobile Pattern, Exten., 4 bow.. " " 7.50

BUGGY BOW SOCKETS

3 Bow Bruce | 4 Bow Philadelphia | 4 Bow Philadelphia Exten. | 3 Bow Ram's Horn | 4 Bow Ram's Horn

STEEL BOW SOCKETS, JAPANNED

Style.	Length.	Per Set.
3 Bow Bruce.	26-inch	$1.80
3 Bow Bruce.	27-inch	1.80
3 Bow Bruce.	28-inch	1.80
3 Bow Bruce.	29-inch	1.80
4 Bow Philadelphia.	26-inch	2.20
4 Bow Philadelphia.	27-inch	2.20
4 Bow Philadelphia.	28-inch	2.20
4 Bow Philadelphia.	29-inch	2.20
4 Bow Phil. Exten.	29-inch	2.50
3 Bow Rams Horn.	29-inch	2.15
4 Bow Rams Horn.	29-inch	2.55

STEEL BOW SOCKETS, LEATHER COVERED

Style.	Length.	Per Set.
3 Bow Bruce.	26-inch	$4.60
3 Bow Bruce.	27-inch	4.60
3 Bow Bruce.	29-inch	4.70
4 Bow Philadelphia.	26-inch	5.80
4 Bow Philadelphia.	27-inch	5.80
4 Bow Philadelphia.	29-inch	5.80
4 Bow Phil. Exten.	29-inch	6.40
3 Bow Rams Horn.	29-inch	5.20
4 Bow Rams Horn.	29-inch	6.30

Packed in boxes containing 3 sets each.

"Lengths" of Bow Sockets given above, is distance from center of goose-neck connecting eye to end of main tube.

AUTOMOBILE BOW SOCKETS

3 Bow
Auto Runabout

4 Bow
Auto Exten.

4 Bow
Auto Exten.

5 Bow
Auto Exten.

STEEL BOW SOCKETS, JAPANNED

	(...Lengths of Tubes...) Fronts	Middles.	Backs.	Per Set.
3 Bow Straight	33½-in.	26-in.	31½-in.....	$4.50
4 Bow Exten. Straight	38 -in.	26-in.	36 -in.....	6.25
4 Bow Exten. Curved	38 -in.	26-in	36 -in.....	7.75
	Front Sec.	Rear Section.		
5 Bow Exten. Straight	38-26-in.	36-26-38-in.....		8.75
5 Bow Exten. Curved	38-26-in.	36-26-38-in.....		10.25

Offset on curved Sockets is 3½ inches.

STEEL BOW SOCKETS, LEATHER COVERED

	(...Lengths of Tubes...) Fronts	Middles.	Backs.	Per Set.
3 Bow Straight	33½-in.	26-in.	31½-in.....	$9.20
4 Bow Exten. Straight	38 -in.	26-in.	36 -in.....	12.80
4 Bow Exten. Curved	38 -in.	26-in	36 -in.....	14.30
	Front Sec.	Rear Section.		
5 Bow Exten. Straight	38-26-in.	36-26-38-in.....		15.20
5 Bow Exten. Curved	38-26-in.	36-26-38-in.....		16.70

Offset on curved Sockets is 3½ inches.

Packed in boxes containing three set each.

Explanation of lengths of Bow Socket Tubes given above:

Main Tubes—From center of goose-neck attaching point to end of tube.
Front, Back and Intermediate Tubes—From connecting eye to end of tube.

AUTOMOBILE BOW SOCKETS

3 Bow
Handy Shifting

4 Bow
Handy Shifting

3 Bow
Duquesne Shifting

STEEL BOW SOCKETS, JAPANNED

3 Bow Handy Shifting	Per set,	$6.62
4 Bow Handy Shifting	" "	8.37
3 Bow Duquesne Shifting	" "	6.25

STEEL BOW SOCKETS, LEATHER COVERED

3 Bow Handy Shifting	Per Set,	$10.90
4 Bow Handy Shifting	" "	14.50
3 Bow Duquesne Shifting	" "	10.60

For shipment from factory only.

Give distance from center of attaching eyes to end of tubes.

See Section of ADDITIONS AND REVISIONS for new goods not shown in body of Catalog.

BOW SOCKET TUBES

BUGGY

3 Bow
Bruce

4 Bow
Philadelphia

4 Bow
Philadelphia Exten.

3 Bow
Ram's Horn

4 Bow
Ram's Horn

EXTRA TUBES FOR BRUCE OR PHILA. PAT'RN

		Steel.	Leather Covered.
Fronts	Each,	$0.30	$1.25
Backs	"	.40	1.50
Offsets	"	.30	1.25
Mains	"	.30	1.25
Front Mains for Exten. Sockets	"	.35	1.25
Back Mains for Exten. Sockets	"	.40	1.50

EXTRA TUBES FOR RAM'S HORN PATTERN

		Steel.	Leather Covered.
Fronts	Each,	$0.50	$1.75
Backs	"	.40	1.50
Offsets	"	.30	1.25
Mains	"	.50	1.75

AUTOMOBILE

3 Bow
Auto Runabout

4 Bow
Auto Exten.

4 Bow
Auto Exten.

5 Bow
Auto Exten.

EXTRA TUBES FOR STRAIGHT SOCKETS

		Steel.	Leather Covered.
Fronts	Each,	$1.50	$2.50
Backs	"	1.75	2.75
Mains	"	1.50	2.50
Front Mains for Exten. Sockets	"	1.50	2.50
Back Mains for Exten. Sockets	"	1.75	2.75
Intermediates for 5 Bow Exten	"	1.75	2.75

EXTRA TUBES FOR CURVED SOCKETS

		Steel.	Leather Covered.
Fronts	Each,	$1.65	$2.65
Backs	"	1.90	2.90
Mains	"	1.65	2.65
Front Main for Exten. Socket	"	1.65	2.65
Back Main for Exten. Socket	"	1.90	2.90
Intermediates for 5 Bow Exten	"	1.90	2.90

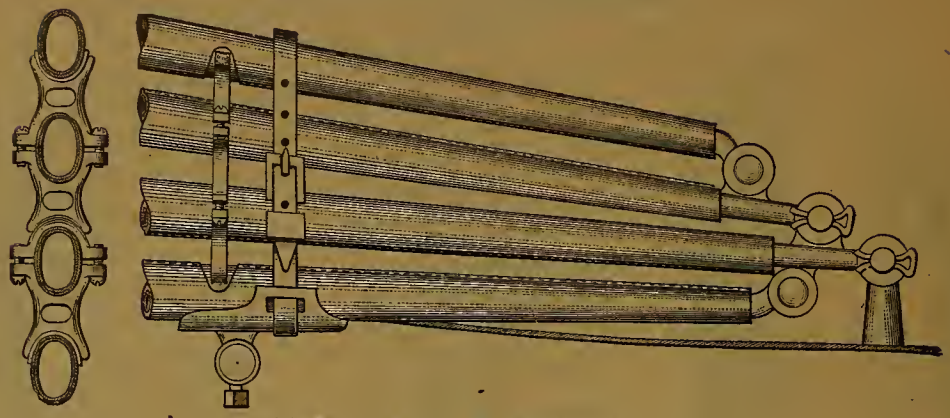
Be Sure to Specify on all Orders for Tubes whether for right or left hand side of vehicle, facing forward.

BOW SOCKET RIVETS

Buggy Size, $\frac{7}{32}$x$\frac{3}{4}$ inches.....Per lb. $0.40

Automobile Size, $\frac{9}{32}$x$\frac{7}{8}$ inches.....Per lb $0.40

BOW SEPARATORS



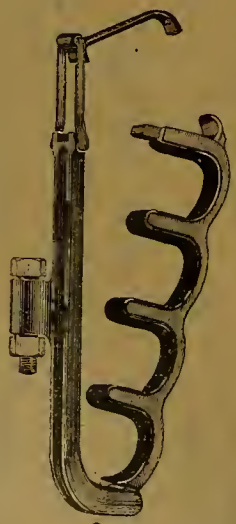
THE "V Z" BOW SEPARATOR

		3 Bow	4 Bow	5 Bow
Polished Brass	Per set,	$4.00	$5.00	$6.00
Japanned	"	2.50	3.00	3.50

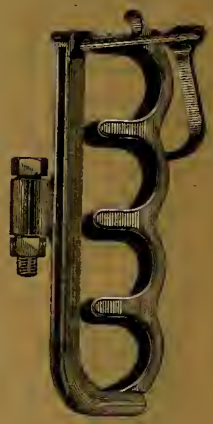
THE "VICTOR" BOW SEPARATOR

Rubber, Complete with Straps and Buckles.

For 3 Bow Sockets	Per pair,	$4.50
For 4 Bow Sockets	"	5.00
For 5 Bow Sockets	"	5.50



Open



Closed

THE "BAIR" BOW SEPARATOR

		3 Bow	4 Bow	5 Bow
Bronzed Brass, Lea. Lined	Per pair,	$20.00	$20.00	$22.00
Bronzed Brass, Jap. Backs	"	15.00	15.00	17.50
Japanned	"	10.00	10.00	12.50

THE "NEW YORK" BOW SEPARATOR

Polished Brass . . . . . Per doz. (24 pcs.), $4.20

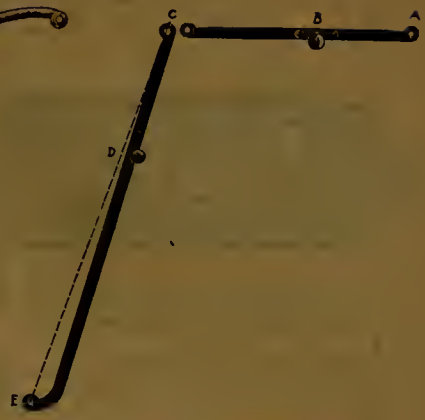
THE "NEW HAVEN" BOW SEPARATOR

Polished Brass . . . . . Per doz. (24 pcs.), $4.80

TOP BRACES

Regular Style Bent Heel, Showing Outside Joint

Phaeton Style, "S" Shaped



Cut for Measurements

STOCK SIZES OF FINISHED TOP BRACES

3 Bow Regular Half Matched	Per Set,	$1.50
3 Bow Regular Full Matched	"	2.25
3 Bow Phaeton Full Matched	"	2.50
3 Bow Auto Full Matched	"	9.00
4 Bow Regular Half Matched	"	1.50
4 Bow Extension Half Matched	"	2.25
3 Bow Outside Joints Half Matched, 17-in.	"	.75

All above ⅞ Oval Iron, except Auto, which are ⅝-inch.

MEASUREMENTS OF FINISHED TOP BRACES

	(... Front Joint ...)			(....Back Joint....)		
	A to B	B to C	A to C	C to D	D to E	C to E
3 Bow Regular	7½	11½	19	12	23	35-in.
3 Bow Phaeton	7½	11½	19	12	23	35-in.
3 Bow Auto..(Made to order only)						
4 Bow Regular	10½	13½	24	10½	23	33½-in.
4 Bow Exten..	8½	12½	21	12	23	*35 -in.
3 Bow Outside Joint, 17-in. (6 nnd 11-in.)						

*Extra joint measurement 30-in. (15 and 15-in.)

Illustrating Half Matched Joint

Illustrating Full Matched Joint

CONCEALED JOINTS

Malleable

Plain Pattern

Length Inches	11	12	13	14	15
Per dozen	$1.80	$1.80	$1.80	$2.10	$2.10
Length Inches		16	17	18	19
Per dozen		$2.40	$2.70	$3.00	$4.25

Wrought Steel

Plain Pattern, Heavy

Length Inches	16	17	19	20
Per dozen	$4.50	$4.50	$5.00	$5.00

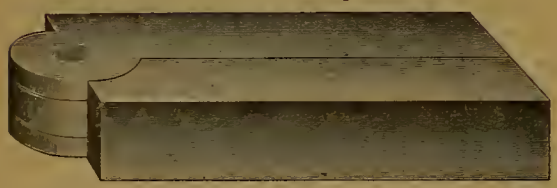
The 3 Bow Outside Joints listed nnder Finished Top Braces above, may also be used as Concealed Joints.

Concealed Joints one-half dozen pair per box.

STUMP JOINTS AND JOINT ENDS

No. 152—FULL MILLED STUMP JOINT
With Rivets and Washers

Size, in.	7/8x5/8	1x5/8	1 1/8x5/8
Per dozen	$13.00	$20.00	$23.00



No. 153—FULL MILLED STUMP JOINT

Size, in.	5/16x1/2	5/8x1/2	5/8x5/16	5/8x5/8	3/4x1/2
Per dozen	$3.60	$3.90	$3.90	$3.90	$7.50
Size, in.	3/4x5/8	3/4x3/4	7/8x5/8	1x5/8	1 1/8x5/8
Per dozen	$7.50	$11.20	$11.25	$18.00	$21.00

Swaged End

Square End

No. 3—HALF MILLED STUMP JOINT

Size, in.	1/2x3/8†	5/16x1/2†	5/8x1/2†	5/8x5/16†	5/8x5/8†
Per dozen	$2.40	$2.50	$2.80	$3.00	$3.00
Size, in.	3/4x1/2†	3/4x5/8†	3/4x3/4†	7/8x1/2*	7/8x5/8*
Per dozen	$5.00	$6.00	$9.40	$9.00	$9.75

†Swaged End.
*Square End.

Stump Joints one dozen per Box.

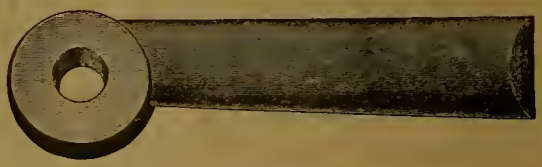
COACH JOINT RIVET AND WASHER

Rivet

Number	Diam. Head	Diam. Shank	For Joints	Per doz.
5½	1 5/8-in.	5/8-in.	7/8-in.	$1.20

Washer

Number	Diam.	Diam. Hole	For Joints	Per doz.
5½	1 7/8-in.	5/8-in.	7/8-in.	$1.20



LANDAU SHORT END JOINT

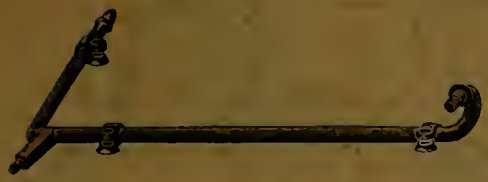
7/8-inch Oval, ½-inch hole.....Per set (8), $1.50

LONG JOINT ENDS

Illustration shows one set of regular style

5/8-inch Oval, Regular Style, 7/16-inch Hole	Per set,	$0.80
3/4-inch Oval, Regular Style, 1/2-inch Hole	"	1.20
5/8-inch Oval, Extension Style, 7/16-inch Hole	"	1.20
3/4-inch Oval, Extension Style, 1/2-inch Hole	"	1.80

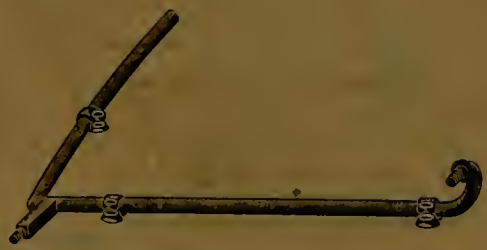
SHIFTING RAILS



DUPLEX, ACORN END, CLIP RAIL, JAPANNED

9/16-inch Oval Iron

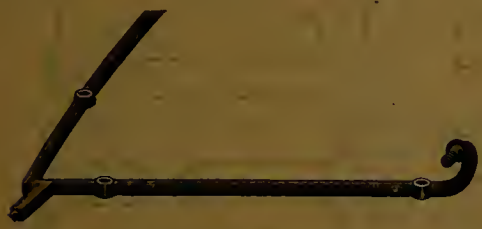
No. 2. Without Arm Rails or Back Standards..Per set, $1.25



DUPLEX, CLIP RAIL, JAPANNED

9/16-inch Oval Iron

No. 3. Without Arm Rails or Back Standards..Per set, $1.40



No. 3½—NIB AND BARREL RAIL, JAPANNED

9/16-inch Oval Iron

No. 3½ —Four Barrels, two Nibs.....Per set, $1.40
No. 03 —Six Nibs ..... " 1.40
No. 03½—Six Barrels ..... " 1.40
Without Arm Rails or Back Standards

No. 10 — WROUGHT SURREY RAIL, BLACK

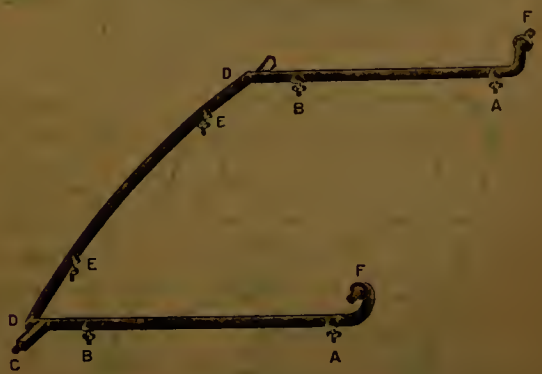
9/16-inch Oval Iron, Arm Rails ⅜-inch Round

No. 10.....Per set, $1.75

No. 5—WROUGHT RAIL, BLACK

9/16-inch Oval Iron

No. 5—With Braced Arm Rails.....Per set, $4.00
No. 4—Without Arm Rails..... " 2.50
Arm rails and back standards are ⅜-inch round iron



Measurements for all Stock Rails

Prop Iron C, 3½ inches long, ½-inch square, ⅞-inch thread.
Distance between side nibs or barrels A-B 12½ inches.
Distance between side nibs or barrels B and corner D 3½ in.
Distance between back nibs or barrels E and corner D 8½ in.
Distance center to center prop and goose-neck, 17½ inches.
Goose-neck F raised 2½ inches; thread ⅞ inches.
Knob holes drilled for 6½ inch back stays.
Size of rails ⅞-in. x ⅜-in. oval.

All Shifting Rails supplied in halves

SHIFTING RAILS AND EXTRAS

AUTOMOBILE SHIFTING RAIL

No. 478—¾-inch Oval Iron.....Per set, $12.00
Hand forged from best Norway iron

ARM RAILS AND BACK STANDARDS

No. 15—Arm Rails, in pairs, rights and lefts..Per pair, $0.40
No. 7—Back Standards, 12 inches long.... " .30
Arm Rails and Back Standards ⅜-inch Round Iron

VICTORIA GOOSE NECK

No. 433—Victoria Goose Neck.....Per pair, $1.50
For use in conjunction with No. 432 Victoria Slat Iron

ARM RAIL SOCKET

No. 4805.....Per doz. $0.40

Clip | Bolt | Attachment Complete

PERFECT SHIFTING RAIL ATTACHMENT

Clips .....Per doz. $0.35
Bolts, ⅜x1½ inch, with Hexagon Nuts..... " .35
Attachment complete..... " .70

Excelsior Complete | Excelsior Split Bolt | Walco

SHIFTING RAIL ATTACHMENTS

Excelsior, complete .....Per doz. $1.50
Split Bolts only, for Excelsior..... " .75
Walco ..... " .60

TOP PROPS

MALLEABLE, REGULAR

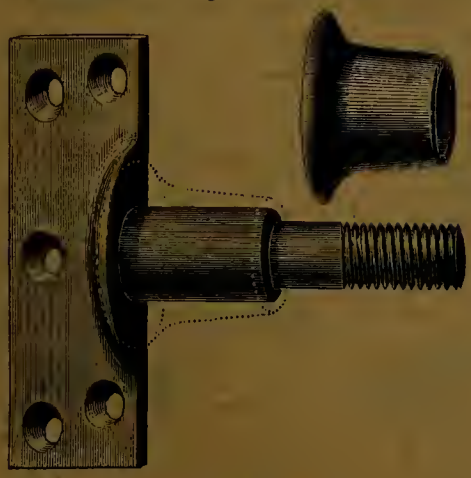
Japanned Thimble

	Per Set
Set A—⅜-inch Shank, 2 long and 2 short	$0.30
Set B—7/16-inch Shank, 2 long and 2 short	.30
Set C—7/16-inch Shank, 4 long	.40
Set E—7/16-inch Shank, 4 long and 2 short (Exten.)	.50
Set H—½-inch Shank, 2 long and 2 short	.75

MALLEABLE, SCREW BASE

Japanned Thimble

	Per Set
Set K—⅜-inch Shank, 2 long and 2 short	$0.45
Set L—7/16-inch Shank, 2 long and 2 short	.45
Set M—7/16-inch Shank, 4 long	.55
Set P—7/16-inch Shank, 4 long and 2 short (Exten.)	.70

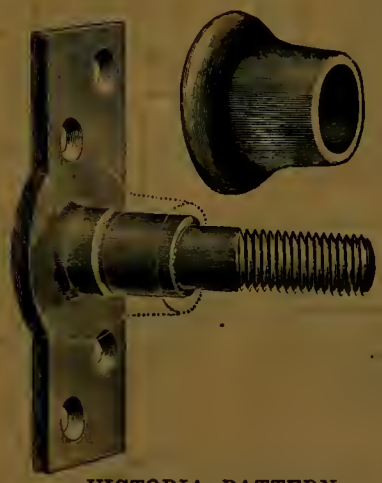


LANDAU PATTERN

½-inch Shank

	Per Set (4)
Nos. 1 and 2 —Plate, 3⅜x1⅛ inches (Malleable)	$2.00
Nos. 1½ and 2½—Plate, 4⅜x1⅜ inches (Wrought)	3.00

Nos. 1 and 1½ have long thimble, as per illustration.
Nos. 2 and 2½ have short thimbles.



VICTORIA PATTERN

½-inch Shank

	Per Set (4)
No. 4—Plate, 3½x1¼ inches (Malleable)	$1.00
No. 3—Plate, 3¾x1¼ inches (Wrought)	2.50

Front Prop

Main Prop, to Carry Three Joint Eyes

Rear Prop

MALLEABLE SIX JOINT PROP

Set R—⅜-inch Shank, consisting of two of each of above Props ..... Per set [illegible]

TOP PROP NUTS

Nos. 72 and 80

No. 11A

No. 104

No. 172

JAPANNED NUTS

No. 72 —Imitation Stitch, 1⅛-inch diameter, ⅜ or $\frac{7}{16}$-inch hole.....Per gross, $2.85
No. 80 —Imitation Stitch, 1¼-inch diameter, ⅜ or $\frac{7}{16}$-inch hole..... " 3.30
No. 11A —Milled Edge, 1⅛-inch diameter, ⅜ or $\frac{7}{16}$-inch hole..... " 3.30
No. 104 —Smooth Oval, 1¼-inch diameter, $\frac{7}{16}$-inch hole..... " 2.85
No. 172 —Goose Neck, 1⅛-inch diameter, $\frac{7}{16}$-inch hole..... " 3.60

Rivets to match above, same price as nuts

No. 96

No. 354

Nos. 21A and 22B

No. 128

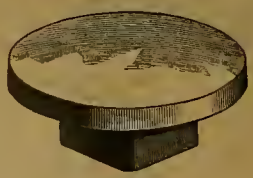
PLATED NUTS

No. 96 —Plain, Silver or Brass, Braced Cap, 1⅛-inch diameter, ⅜ or $\frac{7}{16}$-inch hole.....Per gross, $5.00
No. 354 —Plain Silver, Solid Filled, 1⅛-inch diameter, ⅜ or $\frac{7}{16}$-inch hole..... " 8.00
No. 21A —Milled Edge, Silver, Braced Cap, 1⅛-inch diameter, ⅜ or $\frac{7}{16}$ inch hole..... " 5.50
No. 22B —Milled Edge, Brass, Braced Cap, 1¼-inch diameter, ⅜ or $\frac{7}{16}$-inch hole..... " 6.00
No. 128 —Milled Edge, Silver, Braced Cap, 1⅛-inch diameter, $\frac{7}{16}$-inch hole..... " 5.50

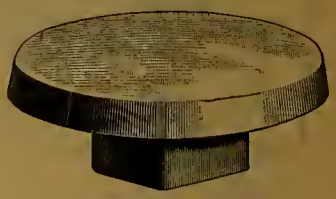
Rivets to match above, same price as nuts

No. 3

No. 199



No. 26



Nos. 29 and 29½

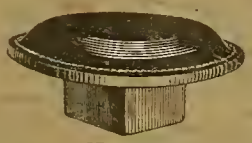
PLATED NUTS

No. 3 —Beaded Edge, Brass, Solid Filled, 1¼-inch diameter, $\frac{7}{16}$-inch hole.....Per gross, $9.00
No. 199 —Beaded Edge, Brass, Braced Cap, 1½-inch diameter, $\frac{7}{16}$-inch hole..... " 6.00
No. 26 —Plain, Silver, Solid Filled, 1⅜-inch diameter, $\frac{7}{16}$-inch hole.....Per doz., 1.25
No. 29 —Plain, Silver or Brass, Solid Filled, 1⅞-inch diameter, $\frac{7}{16}$-inch hole..... " 2.25
No. 29½—Plain, Silver or Brass, Solid Filled, 1⅞-inch diameter, ½-inch hole..... " 2.25

No. 26 is suitable for Victorias; Nos. 29 and 29½ are suitable for Landaus.

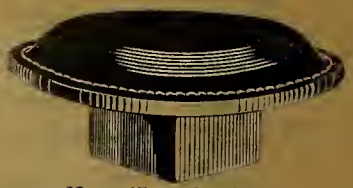
Rivets to match above, same price as nuts

No. 42



No. 43

No. 44



Nos. 45 and 45½

LEATHER COVERED NUTS

No. 42 —Grain Dash Leather, 1⅛-inch diameter, $\frac{7}{16}$-inch hole.....Per gross, $6.00
No. 43 —Grain Dash Leather, 1¼-inch diameter, $\frac{7}{16}$-inch hole..... " 6.00
No. 44 —Grain Dash Leather, 1½-inch diameter, $\frac{7}{16}$-inch hole..... " 7.00
No. 45 —Grain Dash Leather, 2 -inch diameter, $\frac{7}{16}$-inch hole.....Per doz., 2.00
No. 45½—Grain Dash Leather, 2 -inch diameter, ½-inch hole..... " 2.00

Rivets to match above, same price as nuts

TOP PROP RIVETS, WASHERS, ETC.

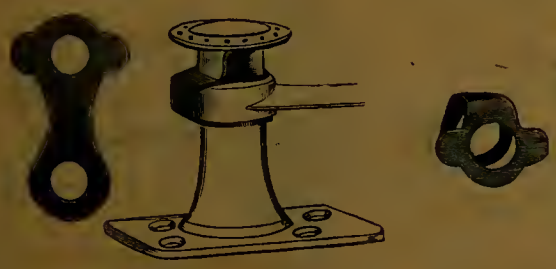
No. 1
PLAIN NORWAY RIVET

No. 72
JAPANNED RIVET

No. 43
LEATHER COVERED RIVET

No. 354
PLATED RIVET

No. 1—Plain Norway, Head 1-inch diameter, ¼-inch Shank	Per Gross,	$4.00
No. 72—Japanned, Imitation Stitch, 1⅛-inch diameter, ¼-inch Shank	"	2.85
No. 43—Leather Covered, 1¼-inch diameter, ¼-inch Shank	"	6.00
No. 354—Silver Plated, Solid Filled, 1⅛-inch diameter, ¼-inch Shank	"	8.00
No. 120—Brass Plated, Braced Cap, 1⅛-inch diameter, ¼-inch Shank	"	5.00



PIKE'S PATENT NUT LOCK

Pike's Patent Nut Locks..... .....Per 100, $1.50

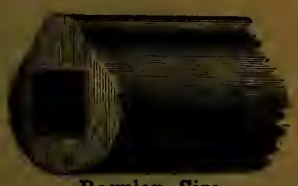
100 per Box.

Leather Steel

TOP PROP WASHERS

No. 1—Pressed Leather, for ⅜-inch Props..	Per 1000,	$3.00
No. 2—Pressed Leather, for ⅞-inch Props..	"	3.00
Anti-Friction, Steel, Jap'd, for ⅞-in. Props..	Per lb.,	.40

Leather Washers, 200 per box. Metal Washers, 1 lb. per paper.



Regular Size

Landau Size

BOW REST RUBBER

No. 1—Best Quality, Natural Color, Regular Size, ⅞ or ⅝-inch Square Hole	Per strip,	$1.00
No. 2—Standard Quality, Japanned, Regular Size, ⅞ or ⅝-inch Square Hole	"	.50
No. 3—Competition Quality, Japanned, Regular Size, ⅞ or ⅝-inch Square Hole	"	.70
No. 1—Best Quality, Japanned, Landau Size, ¾-inch Square Hole	"	1.50

In strips of 2 feet each.

BOW RESTS AND WASHERS

ECONOMY BOW REST

Economy Bow Rest .....Per dozen pair, $3.60

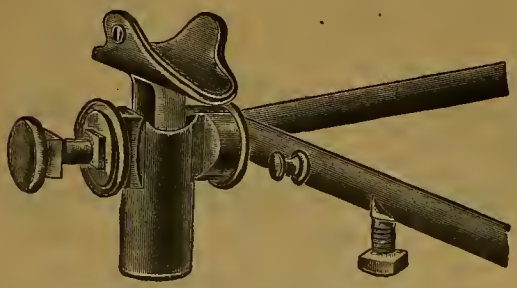
These Rests are made with a Solid Rubber Cylinder, 1⅝-inches diameter, 2⅝-inches long, and Japanned Metal Washers.

1 dozen pair per box.

CRANDAL SPRING BOW REST

Crandal Spring Bow Rest, Japanned....Per doz. pair, $6.00

1 dozen pair per box; Right and Left.



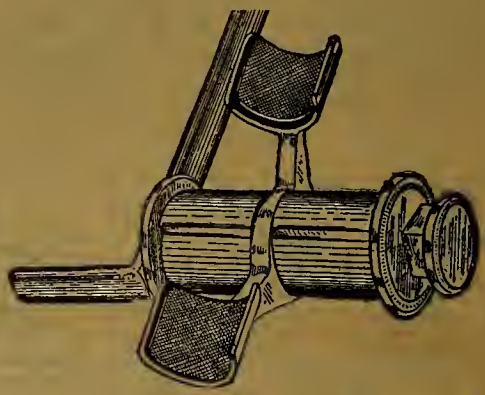
Showing Prop attached to Rail.

IMPROVED CAPITAL BOW REST

Improved Capital Bow Rest, Japanned..Per doz. pair, $12.00

Operates vertically on a spring.

1 dozen pair per box.



PIONEER BOW REST

Pioneer Bow Rest, Silver Plated.....Per doz. pair, $9.00

Pioneer Bow Rest, Japanned ..... " 6.00

1 dozen pair per box.

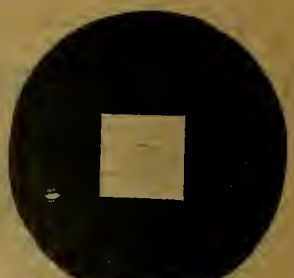
CATLEY'S BOW REST

Patent Leather Covered....

.....Per doz pair, $10.00

1 doz. pair per box.

Nos. 1 and 2 Raised Center



No. 4 Flat Center

BOW REST WASHERS

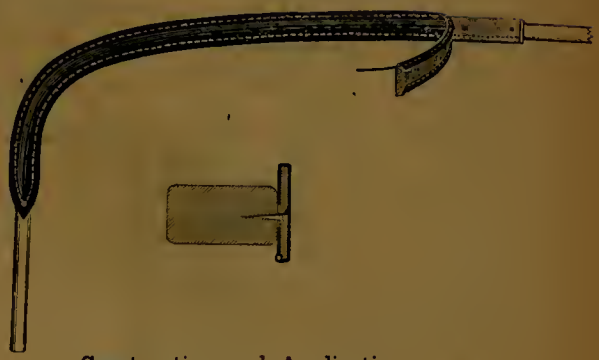
	Per gross.		Per gross.
No. 1—Grain Dash, 2-in. dia....	$6.00	No. 4—Soft Dash, 1⅝-in. dia....	$1.50
No. 2—Soft Dash, 2-in. dia.....	4.50		

Washers have ⅜-inch round hole or ⅛-inch square hole. In ordering be particular to specify which is wanted.

Nos. 1 and 2, 1 gross; and No. 4, 2 gross per box.

VALANCES, BACK STAYS, ETC.

Valance Applied



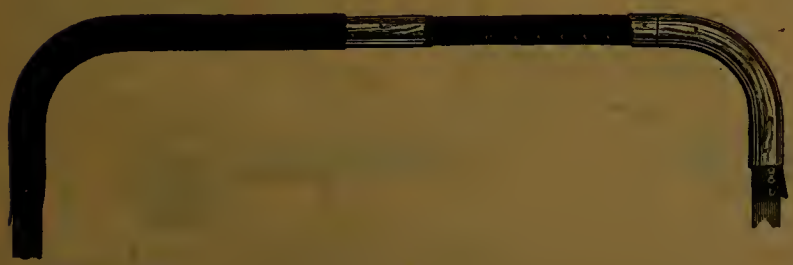
Construction and Application

THE LIGHTNING FRONT VALANCE

Enameled Drill.....Each, $0.35 Moleskin.....Each, $0.45

In sizes from 3 feet to 4 feet 2 inches.

Measurements for Valances should be taken across bows from outside to outside, just below the bend.



METAL FRONT VALANCE, JAPANNED

Metal, Black Rubber Finish.....Each. $0.50

In sizes from 3 feet to 4 feet 2 inches.

VALANCE CLAMPING TOOL

For Applying Metal Valances

Nickel Plated.....Each, $2.50

Measurements for Valances should be taken across bows from outside to outside, just below the bend.

METALLIC BACK STAY STRIPS

No. 1 —Steel, ⅛x41 inches.....Per pair, $0.50

No. 1½—Brass, ⅛x41 inches..... " .40

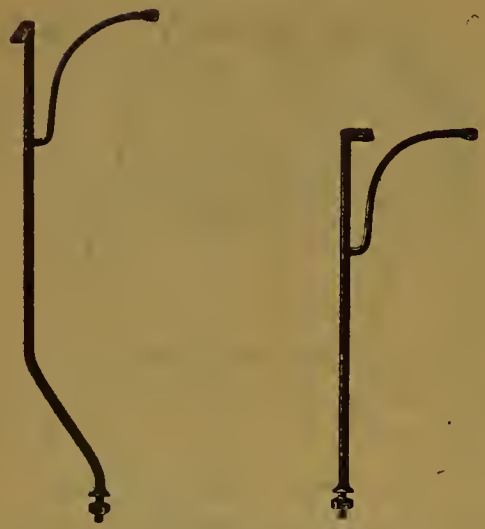
CATELEY'S TOP LEVER

For Raising or Lowering Top From Inside

Japanned.....Per doz., $10.

1 dozen pair per box.

CANOPY TOP STANDARDS AND SOCKETS



Back Front

CANOPY STANDARDS, WELDED, JAPANNED

	Size Iron.	Threaded End.	(....Length....) Fronts.	Rears.	Per Set.
No. 1800 B....	⅞-in.	½-in.	36½-in.	53-in.	$3.75

Back Bend, 3¼ inches; Side Bend, 3¼ inches.
Four Pieces per Set.

CANOPY STANDARD END

	Dia. Iron.	Dia. Collar.	Dia & Lgth of Threaded End.	Total Length.	Per 100
No. 0—	½-in.	1-in.	⅞x1¼-in.	5-in.	$15.00
No. 1—	⅝-in.	1-in.	½x1½-in.	5¼-in.	15.00

CANOPY STANDARD END

Taper Shank

	Per 100
No. 1846A—⅝-in. Iron, to fit No. 1855A Socket.....	$15.00
No. 1846B—¾-in. Iron, to fit No. 1863B Socket.....	20.00

Back Front

CANOPY STANDARDS IN HALVES, BLACK

	Size Iron.	Thrded End.	(..Length..) Branch End.	Shank End.	Total Length.	Per Set.
No. 1810B—	⅝-in.	½-in.	36-in.	18-in.	54-in.	$3.50
No. 1810C—	¾-in.	⅝-in.	36-in.	18-in.	54-in.	5.00

Eight Pieces per Set.

CANOPY STANDARD SOCKET

Half Round Shank

	Dia. Eye.	Size Hole.	Length.	Per 100.
No. 1—	1-in.	½-in.	4-in.	$15.00

Suitable for No. 1 Standard Ends.

No. 10—To fit threaded end of No. 1810C Standard, length 4 inches..... $20.00

CANOPY STANDARD SOCKET

Taper Hole

	Per 100.
No. 1855A—To fit No. 1846A Standard End.....	$15.00
No. 1863B—To fit No. 1846B Standard End.....	20.00

CANOPY TOP IRONS

IMPROVED STANDARD AND SOCKET

Per doz.

No. 479 —Socket, offset 3¼-in., height 2-in.....$9.00

No. 479½—Standard end, diameter ¾-in.,, threaded end ⅝-in., length over all 5 inches..... 3.50

There is a slot in the Socket and a fin on the Standard. When put together the Standard cannot turn in the Socket.

⅝-in. Socket.
2¾-in. long.
¾-in. wide.
¼-in. Bolt.

No. 5120A—Malleable Socket, for side of body. Per lb., $0.20
Used with No. 5130.

⅞-in. Standard.
3½-in. long over all.
1⅞-in. from holes to c. of Socket.
1¼-in. depth of Socket.
¼-in. Bolt.

Per doz. pair.

No. 5135—Malleable Socket, for bottom of body.....$2.50

A	C	D	E	
6½	7½	7	5¾	in. Panel.
1⅝	1⅝	1⅝	1⅝	in. wide.
1⅞	1⅞	2¼	2	in. projection to c. of Socket.
½	½	½	½	in. Socket.
1⅜	1⅜	1⅜	1⅜	in. depth of Socket.
1¾	1¾	1¾	1¾	in. Foot projection.
90°	90	90°	90°	Bevel.

No. 5010—Malleable Socket .....Per lb., $0.20

CANOPY STANDARD OFFSET

Square Offset, Drop Forged

	Size Upright.	Size Offset.	Per Doz.
No. 1	⅝-inch.	⅞-inch	$3.50

½-inch Socket.
3 -inch long over all.
2½-inch from holes to c. of Socket.
⅝-inch depth of Socket.
¼-inch Bolt.

No. 5130—Malleable Socket, for bottom of body. Per lb., $0.20
Used with No. 5120A

6½-inch length over all.
4½-inch length of **T** over all.
½-inch Socket.
¾-inch depth of Socket.
1 -inch projection to c. of hole.
¼-inch Bolt.

Per lb.

No. 5150—Malleable Socket, for bottom of body.....$0.20

For Back Corners of Road Wagon Bodies.
5x5 -inch long.
1⅜-inch wide.
½-inch Socket.
1 -inch depth of Socket.
1¼-inch projection to c. of hole.
In pairs, right and left.

No. 5145—Canopy Top Iron. Per [illegible]

SYSTEM

System has been defined, after the famous saying of P. T. Barnum, (who, by the way, got rich by being systematic in the circus business), as "Neither keeping some things in order all of the time, nor all things in order some of the time, but keeping all things in order all of the time."

System is simply another word for "Order" or "Method," and "Organization" may also be called System.

No wonder the assumed alliance of the great corporations is sometimes called "The System." No one ever got rich who was not systematic, except through pure luck, and even then did not keep any part of his wealth, unless he was at least partly systematic.

"Genius" is defined as consisting of "an infinite capacity for taking pains." We can all be geniuses, if we want to, by simply being thoroughly methodical, or systematic.

System should extend to all parts of the business,—not only to the office functions, but to the stock keeping, labor methods and shop.

A general all round clean-up, from cellar to garret,—from office to refuse pile,—should take place at least once a month, and there is no way in which system, method and order can be better promoted or more money made, at least in the long run, than by the process of periodical "cleaning-up."

MINOR TOP ACCESSORIES

CARRIAGE KNOBS,

CURTAIN FASTENERS,

BUCKLES AND LOOPS,

CURTAIN LIGHTS,

ETC.

GENERAL INFORMATION

Subdivision of "Minor Top Accessories"

CARRIAGE KNOBS and CURTAIN FASTENERS are principally used for the purpose of attaching back and side curtains of vehicle tops. They are also used, however, for a variety of purposes, such as attaching storm aprons and dust hoods and as fasteners for curtain roll-up straps, etc. Carriage Knobs are usually used as curtain fasteners on low and medium priced tops. The special knobs provided with an eye and pin, for which a staple and pin is sometimes substituted, are frequently used for attaching curtains of tops of the heavier class of vehicles.

DRIVE KNOBS and SCREW KNOBS are fastened to the bows of the top, RIVET KNOBS to the Shifting Rail and TUBULAR and SPLIT SHANK KNOBS to the Back Stays, some being made for the application of one and others for fastening two curtains, usually designated Single and Double Curtain Knobs.

KNOB EYELETS, as indicated by the name, are used to form button holes in the curtains, as a means for fastening the curtains to the carriage knobs.

WAGON CURTAIN PATCHES are usually used on heavy wagon curtains, either in connection with staples or screw eyes, in much the same manner as carriage knobs and knob eyelets.

CURTAIN FASTENERS are used principally on tops of higher grades and on automobile tops, and are obtainable in various styles, the method of attachment varying as follows: "For attachment with screws," "to rivet," "to screw" and "to clinch," a further variation being Single, Double and Triple curtain fasteners. Special tools are necessary for the purpose of cutting the holes in curtains for certain curtain fastener eyelets.

CANOPY TOP HOOKS are used to support Canopy Top Curtains from Canopy Top Frame, button holes in the curtain being usually formed by the insertion of grommets.

BUCKLE and STRAP LOOPS are used for the purpose of fastening back and side curtains to the Back Stays. The buckles are fastened to the Back Stays and the straps to the curtain, double buckles being used where both back and side curtains are to be fastened and single buckles where one curtain only is to be fastened, in which latter instance the other curtain is fastened by means of a carriage knob or curtain fastener. The loops on buckles act as strap end keepers, the loop on the strap serving solely to match up the loop on the buckle.

SINGLE LOOPS, without attached strap or buckle, are used in making up special buckle and strap loops.

Straps, simply with circular dics instead of loops, usually called CURTAIN STRAPS, are used in connection with cheaper classes of work.

ROLL-UP STRAPS are attached to the inside of the back bow, being provided with a button hole at the point, which may be buttoned over carriage knobs or curtain fasteners attached to the outside of the back bow, thus holding the back curtain in a rolled-up position.

CURTAIN LIGHTS are of two classes, for use in loose curtains of light vehicles, and in tops of closed vehicles. Loose Curtain Lights consist of three parts, inside frame, outside frame and glass, which are combined and fastened or clinched into the curtain by means of prongs on the outside frame. Closed-vehicle lights consist of two pieces, the metal frame and the glass, which are combined and attached to wood frames by bending the tin starts, which project from the metal frame, around and back of the wood frame, the whole, in turn, being fastened into the vehicle top.

TRANSPARENT CELLULOID or FLEXIBLE GLASS is frequently used as a substitute for regular glass curtain lights in the tops of business buggies and where tops are otherwise subject to hard usage, and in vehicle storm aprons and fronts. Its use is very desirable in curtains which have to be rolled up.

CARRIAGE KNOBS

No. 80 No. 81 No. 82 No. 2 No. 3 No. 99 No. 144

JAPANNED, TO DRIVE

No. 80—⅞-in. Barbed Shank, single curtain..Per gross, $0.75
No. 81—⅞-in. Round Shank, single curtain.. " .66
No. 82—⅞-in. Square Shank, single curtain.. " .66
No. 2 —⅞-in. Round Shank, double curtain.. " .72
No. 3—⅞-in. Square Shank, dbl. curtain..Per gross, $0.72
No. 99—⅞-in. Round Shank, double (hvy). " 1.35
No. 144—¾-in. Round Shank, sgl. (Brewster) " 1.50

Nos. 18 and 27 No. 36 No. 23M Nos. 126 and 126S No. 180 No. 162 No. 108 and Pin

JAPANNED, TO SCREW

Per Gro.
No. 18 — ⅝-in. Shank, single curtain.....Per gross, $1.20
No. 27 — ¾ in. Shank, double curtain..... " 1.26
No. 36 — ⅝-in. Shank, single curtain..... " 1.20
No. 23M—1⅛-in. Shank, single curtain..... " 2.25
No. 126 — ⅝-in. Shank, single (Brewster).. " 1.65
No. 126S—¾-in. Shank, single curtain (Brewster)....$1.65
No. 180 —⅝-in. Shank, single curtain, button head.... 1.20
No. 162 —⅝-in. Shank, single curtain, hook head..... 1.80
No. 108 —¾-in. Shank, single, eye head with pin..... 2.10

No. 55 No. 72 No. 63 No. 135 No. 90 No. 171

JAPANNED, TO RIVET

Per Gro.
No. 55—⅞-in. Round Shank, single curtain..Per gross, $0.75
No. 72—⅞-in. Round Shank, double curtain. " 1.02
No. 63—⅞-in. Round Shank, single curtain.. " .96
No. 135—⅞-in. Round Shank, sgl. curtain (Brewster) $1.50
No. 90—⅞-in. Round Shank, concave base, sgl. . .96
No. 171—⅞-in. Round Shank, button hd., sgl curtain . .96

All of above one gross per box

CARRIAGE KNOBS

No. 55X

No. 135X

No. 117X

No. 13

TUBULAR AND SPLIT SHANK KNOBS,

	Per gross
No. 55X—⅜-in. Tubular Shank, with washers, Japd.	$1.80
No. 135X—⅜-in. Tub. Shk., with wshrs., Brewster, Japd.	1.80
No. 117X—⅜-in. Split Shank, with washers, Japd.	$1.50
No. 13 —½-in. Dbl. Pt., with washers, Brewster, Japd.	1.65

No. 811

No. 198

NICKELED OR POLISHED BRASS KNOBS

	Per gross
No. 811 Drive—⅞-inch Shank, dbl. curtain	$5.25
No. 198 Screw—¾-inch Shank, dbl. curtain	9.00

CONCORD STAPLE AND KEY

	Per gross
Staple and Key, Japanned	$3.00

No. 117—SPLIT SHANK KNOBS

	Per gross
No. 117—⅞-inch Shank, Japanned	$0.90

A good general purpose knob.

No. 11

No. 16

WROUGHT STEEL KNOBS

	Per gross
No. 11 Drive—¾-in. Shank, sgl. curtain, Japanned	$0.66
No. 16 Drive—⅞-in. Shank, dbl. curtain, Japanned	.75

No. 14

No. 18

No. 13

No. 19

WROUGHT STEEL KNOBS

To Screw

No. 14—¾-in. Shank, single curtain, Japd. Per gross,	$1.20
No. 18—⅞-in. Shank, double curtain, Japd. "	1.35

To Rivet

No. 13—¾-in. Shank, single curtain, Japd. Per gross,	$0.69
No. 19—⅞-in. Shank, double curtain, Japd. "	.81

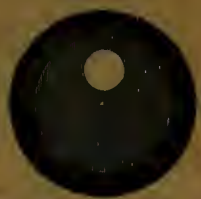
All of above, one gross per box.

KNOB EYELETS AND CURTAIN PATCHES

Nos. 1 or 5
Front View

Nos. 2 or 6
Front View

Nos. 1 or 2
Back View



Nos. 5 or 6
Back View

KNOB EYELETS

No. 1—Harness Leather Center, six prong..Per gross, $0.80
No. 5—Harness Leather Center, four prong. " .80

No. 2—Pebble Leather Center, six prong..Per gross, $0.70
No. 6—Pebble Leather Center, four prong.. " .70

No. 4—KNOB EYELET

No. 4—Metal Back Plate, four prong.....Per gross, $0.65

No. 8—KNOB EYELET

No. 8—Harness Leather, Cen. 5 prongs, 1⅜ in. dia..Per gro., $1.25

For Knob Eyelet Punch see Trimmers' Tools.

DICKERSON EYELET

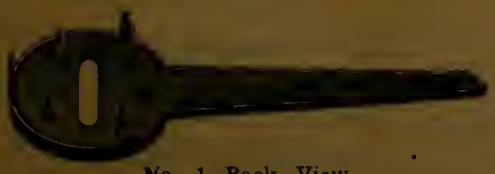
No. 12—Pebble Leather Center, five prong..Per gross, $0.80

TALCOTT'S ELASTIC BUTTON HOLES

No. 10—Oval Center.....Per gross, $4.00
Metal parts brass, Japanned, 6 prongs, pure gum centers.

No. 1 Front View

No. 2 Front View



No. 1 Back View

Curtain Patch Screw Eye

WAGON CURTAIN PATCHES

No. 1—4 Prong Patch, Japd. screw eyes....Per gross, $4.00
No. 2—5 Prong Patch, Japd. screw eyes.... " 6.00

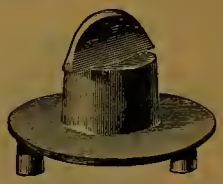
No. 1—Japanned Screw Eyes.... Per gross, .75
No. 2—Japanned Screw Eyes.... " 1.

All of above One Gross per Box.

CURTAIN FASTENERS

No. 1 or 01

Cast Patch and Wrought Plate



No. 4 or 04

Wrought Patch and Plate

BREWSTER CURTAIN FASTENERS

Full Nickeled			Polished Brass		
No. 1—Single Curtain, for screws	Per doz.,	2.25	No. 01 —Single Curtain, for screws	Per doz.,	$2.25
No. 2—Single Curtain, to rivet	"	2.25	No. 02 —Single Curtain, to rivet	"	2.25
No. 3—Double Curtain, for screws	"	2.75	No. 03 —Double Curtain, for screws	"	2.75
No. 4—Double Curtain, to rivet	"	2.75	No. 04 —Double Curtain, to rivet	"	2.75
Extra Cast Patches and Wrought Plates, nickeled	"	.90	No. 03¼—Sgl. Curtain, to screw (Concave Base)	"	2.50
			No. 03½—Dbl. Curtain, to rivet (Concave Base)	"	3.00
			Extra, Wrght Patches & Plates, Polished Brass	"	.50

No. 130 or 13

Wrought Patch and Plate

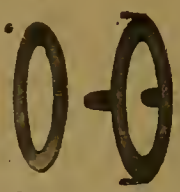
No. 180 or 18

No. 160 or 16

CLIMAX CURTAIN FASTENERS

Japanned Base, Nickeled Top			Polished Brass		
No. 130—Single Curtain, to screw, flat base	Per doz.,	$1.25	No. 13—Single Curtain, to screw, flat base	Per doz.,	$1.50
No. 140—Single Curtain, to clinch, flat base	"	1.25	No. 14—Single Curtain, to clinch, flat base	"	1.50
No. 150—Single Curtain, to rivet, flat base	"	1.25	No. 15—Single Curtain, to rivet, flat base	"	1.50
No. 160—Single Curtain, to rivet, concave base	"	1.25	No. 16—Single Curtain, to rivet, concave base.	"	1.50
No. 170—Double Curtain, to screw, flat base	"	1.50	No. 17—Double Curtain, to screw, flat base	"	1.75
No. 180—Double Curtain, to clinch, flat base	"	1.50	No. 18—Double Curtain, to clinch, flat base	"	1.75
No. 190—Double Curtain, to rivet, flat base	"	1.50	No. 19—Double Curtain, to rivet, flat base	"	1.75
No. 200—Double Curtain, to rivet, concave base	"	1.50	No. 20—Double Curtain, to rivet, concave base.	"	1.75
Extra Wrought Patches and Plates, nickeled	"	.60	Extra Wrght Patches and Plates, polished brass	"	.60

No. 111 or 011



Wrought Patch and Plate

No. 112 or 012

No. 113 or 013

EXCELSIOR CURTAIN FASTENERS

Japanned Base, Nickeled Top			Polished Brass		
No. 111 —Sgl. Curtain, to screw, flat base	Per doz.,	$1.25	No. 011 —Sgl. Curtain, to screw, flat base	Per doz.,	$1.90
No. 111½—Sgl. Curt., screws, flat base, Brewster	"	1.25	No. 012 —Single Curtain, to clinch, 2 prong	"	1.50
No. 112 —Single Curtain, to clinch, 2 prong	"	1.10	No. 013 —Single Curtain, to rivet, concave base	"	1.75
No. 112½—Single Curtain, to clinch, 4 prong	"	1.10	No. 013½—Single Curtain, to rivet, flat base	"	1.75
No. 113 —Single Curtain, to rivet, concave base	"	1.15	No. 015 —Double Curtain, to screw, flat base.	"	2.25
No. 113½—Single Curtain, to rivet, flat base	"	1.15	Extra Wrt. Patches and Plates, nickld or pol. brass	"	.40
No. 114 —Double Curtain, to rivet, concave base	"	1.30			
No. 114½—Double Curtain, to rivet, flat base	"	1.30			
No. 115 —Double Curtain, to screw, flat base.	"	1.35			
Extra Wrt. Patches and Plates, black enamel	"	.15			

Oval Curtain Fastener Punch, 9/16-in...Each, $1.50

All Curtain Fasteners one dozen per box. Patches and Plates one gross per box.

CURTAIN FASTENERS

No. 1

No. 2

No. 33

Eyelet and Plate

PEERLESS CURTAIN FASTNERS, Polished Brass

No. 1—Single Curtain, to clinch, four prong..Per 100, $6.25
No. 2—Single Curtain, to screw, flat base.... " 7.25
No. 3—Single Curtain, to rivet, concave base. " 7.25
No. 11—Double Curtain, to clinch, four prong.. " 7.25
Extra Eyelets and Plates, brass.....Per doz., .40
No. 22—Double Curtain, to screw, flat base....Per 100, $8.25
No. 33—Double Curtain, to rivet, concave base. " 8.25
No. 15—Triple Curtain, to screw, flat base.... " 10.00
Extra Brass Screws.....Per doz., .20
Extra Brass Rivets..... " .20

100 per box.

No. 101

No. 102

No. 103

Eyelet and Washer

"MOTOR" CURTAIN FASTENERS, Polished Brass

No. 100—Sgl. Curt., rvts. or screws, flat base.Per doz., $1.50
No. 101—Dbl. Curt., rvts. or screws, flat base. " 1.80
No. 102—Trip. Curt., rvts. or screws, flat base.Per doz., $2.30
No. 103—Sgl. Curt., rvts. or screws, conev. base " 1.70
Extra Eyelets and Washers for above.....Per doz., $0.30

1 gross per box.

No. 110 Rivet No. 111 Plate No. 112 Rivet

EYELET PUNCH

No. 160—Eyelet Punch.....Each, $3.50
Used to punch holes for insertion of Eyelets of Motor Fasteners.

RELIABLE CURTAIN FASTENERS, Brass

No. 13—Single Curtain, for rvts., with plates..Per doz., $1.00
No. 23—Double Curtain, for rvts., with plates . " 1.00
Extra Eyelets for above..... " .35

One gross per box.

RIVETS AND PLATES, For Motor Fasteners

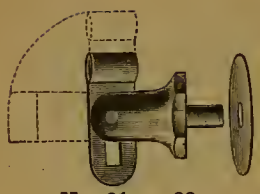
No. 110—Brass Split Rivets for Back Stays..Per 100, $0.45
No. 112—Brass Solid Rivets for rails..... " 1.25
No. 111—Brass Plates to use with No. 112 Rivets " .75

COMBINATION PUNCH

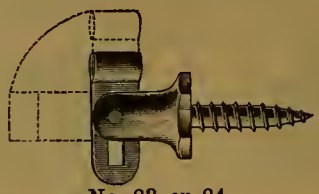
Combination Punches ..... Each, $3.75
Used for punching holes for insertion of Eyelets of Brewster, Climax and other Curtain Fasteners.

All of above illustrations of Fasteners, Eyelets and Plates are exact size.

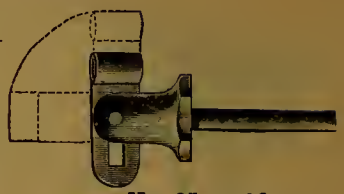
CURTAIN FASTENERS AND TOOLS



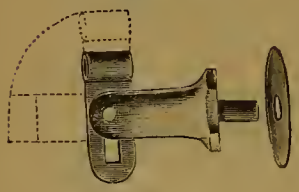
No. 21 or 22



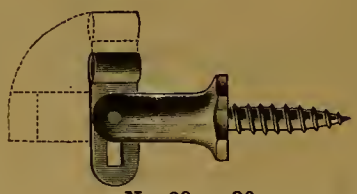
No. 23 or 24



No. 25 or 26



No. 27 or 28



No. 29 or 30

No. 30 or 31

NEW YORK CURTAIN FASTENERS
Polished Brass

With Tubular Eyelets and Washers

	Per doz.
No. 21—Single Curtain, split tubular rivet	$1.10
No. 23—Single Curtain, to screw	1.10
No. 25—Single Curtain, to rivet	1.10
No. 27—Double Curtain, split tubular rivet	1.25
No. 29—Double Curtain, to screw	1.25
No. 31—Double Curtain, to rivet	1.25

With Toothed Eyelets and Washer

	Per doz.
No. 22—Single Curtain, split tubular rivet	$1.25
No. 24—Single Curtain, to screw	1.25
No. 26—Single Curtain, to rivet	1.25
No. 28—Double Curtain, split tubular rivet	1.40
No. 30—Double Curtain, to screw	1.40
No. 32—Double Curtain, to rivet	1.40

One gross per box.

TUBULAR EYELETS AND WASHERS

Extra Tubular Eyelets and Washers.....Per doz., $0.35

TOOTHED EYELETS AND WASHERS

Extra Toothed Eyelets and Washers.....Per doz., $0.40

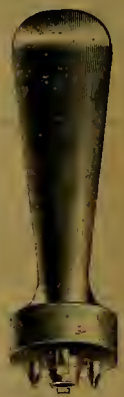
The above styles of Eyelets and Washers are furnished with New York Curtain Fasteners.

Brace Tool

Each $1.25
Used to insert New York Screw Curtain Fasteners.

Anvil

Each $1.25
Used to insert New York Rivet Curtain Fasteners.



Punch

No. 125.....Each, $4.50
Used to cut holes for insertion of New York Curtain Fastener Eyelet.

CURTAIN FASTENERS AND HOOKS

Fig. 1

Fig. 2

Fig. 3

Fig. 4

GLOVE BUTTON FASTENERS

	Per Gross.
24 Line, Polished Brass, Figs. 1 and 2 complete	$4.50
24 Line, Polished Brass, Figs. 1 and 3 complete	9.00
24 Line, Polished Brass, Figs. 1 and 4 complete	7.25
28 Line, Pol. Brass, Nickl. or Japd., Figs. 1 and 2 com.	6.00
28 Line, Pol. Brass, Nickl. or Japd., Figs. 1 and 3 com.	12.00
28 Line, Pol. Brass, Nickl. or Japd., Figs. 1 and 4 com.	9.75

1 Gross per Box.

The above illustration shows the application of the various styles of these Curtain Fasteners to the curtains and woodwork. May also be used on Slip Covers.

Extra Dies, set of 4, for any size Fastener....Per set, $4.50
Cast Iron Bench Block for setting Dies.....Each, 2.25
Screw Driver for Figure 4 Screw Stud..... " 4.50

No. 150

No. 250

HIGGINS ADJUSTABLE CURTAIN FASTENERS

No. 150—Black, Japanned, for Back Stays...Per 100, $9.00
100 per Box.

No. 250—Black, Japanned, for Back Stays...Per 100, $9.00
100 per Box.

No. 2

No. 4

No. 75

No. 8

No. 81

CANOPY TOP HOOKS

No. 2, Japd.—Hook Head, with Grommets..Per gro.,		$3.75
No. 4, Japd.—Plain Hook, with Grommets...	"	2.25
No. 75, Japd. Cup Hook, with Grommets...	"	2.40

1 Gross per Box.

EYES AND HOOKS

No. 7—Bright Screw Eyes	Per Gross.	[illegible]
No. 8—Bright Screw Eyes	"	.70
No. 81—Brass Cup Hooks, ¾-inch	"	2.75

1 Gross per Box.

BUCKLE AND STRAP LOOPS

DOUBLE BUCKLE, METAL LOOP

No. 1—⅝-inch Buckle, 2¼ inches long.....Per 100, $3.20
No. 7—⅝-inch Buckle, 2 inches long..... " 3.00

SINGLE BUCKLE, METAL LOOP

No. 2—⅝-inch Buckle, 2¼ inches long.....Per 100, $3.00
Used with No. 3 Single Strap Loop.

SINGLE STRAP, METAL LOOP

No. 3—⅝-inch Strap, 2½ inches long.....Per 100, $3.00

DOUBLE BUCKLE, METAL LOOP

No. 1G—⅝-in. Buckle, 2½ inches long.....Per 100, $3.50

SINGLE BUCKLE, METAL LOOP

No. 2G—⅝-inch Buckle, 1¾ inches long.....Per 100, $3.25

SINGLE STRAP, METAL LOOP

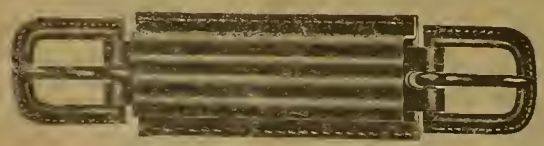
No. 3G—⅝-inch Strap, 1¾ inches loug.....Per 100, $3.25

DOUBLE BUCKLE, HARNESS LEATHER LOOP

Per 100.
No. 10—Metal Lined, ⅝-inch Buckle, 2⅝ inches long..$6.00
No. 11—Metal Lined, ⅝-inch Buckle, 2¼ inches long.. 5.40

SINGLE STRAP, HARNESS LEATHER LOOP

Per 100.
No. 13—Metal Lined, Strap Loop, ⅝-in. Strap, 2 in. long $6.00
No. 12—Metal Lined, Buckle Loop, ⅝-in. Strap, 2 in. long 6.00



DOUBLE BUCKLE, PATENT LEATHER LOOP

Per 100.
No. 14—Metal Lined, ⅝-inch Buckle, 2¼ inches long...$6.50

SINGLE BUCKLE, PATENT LEATHER LOOP

No. 8—Metal Lined, ⅝-in. Buckle, 2 in. long..Per 100, $6.50

All of above 100 per Box.

LOOPS AND STRAPS

SINGLE STRAP LOOP

Patent Leather

No. 8—Leather, ⅝-in. Strap, 2 in. long.....Per 100, $6.50
Used with No. 8 Single Buckle Loop.

PRESSED LEATHER LOOP

To Sew to Curtain

No. 22—⅞-inch, High .....Per Gross, $7.00
No. 24—⅞-inch, Low ..... " 7.00

No. 6 CURTAIN STRAP

Japanned

	Per 100.
No. 6—Best Harness Leather, metallic rim, 6 clinches	$2.50

No. 10 CURTAIN STRAP

Japanned

	Per 100.
No. 10—Best Harness Leather, metallic rim, 4 clinches	$2.00

No. 8 CURTAIN STRAP

Japanned

No. 8—Best Harness Leather, billet riveted to metallic fastener, 4 clinches .....Per 100, $1.80

No. 14 CANOPY CURTAIN FASTENER

Head to match No. 8 Curtain Strap

No. 14—Japanned Buckle, 4 clinches.....Per 100, $2.75

No. 1 ROLL-UP STRAP

No. 1—Full Patent Leather .....Per 100, $5.00
No. 11—Patent Leather Face, Enameled Back " 3.50

No. 3 ROLL-UP STRAP

No. 3—Full Patent Leather .....Per 100, $5.00
No. 13—Patent Leather Face, Enameled Back " 3.50

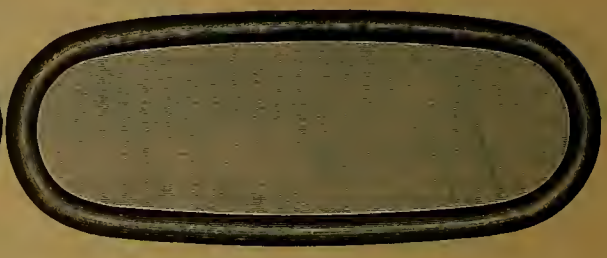
All of above 100 per box, except Pressed Leather Loops,—1 Gross per Box.

CURTAIN LIGHTS

OVAL PATTERN

Japanned Frame

Nos.	1	3	8	9	10
Opening, inches	2⅜x4⅝	3⅜x5⅞	2x5⅝	4¼x6½	2⅜x4⅝
Plain Glass, doz.	$1.40	$2.50	$1.40	$5.00	$1.40
Bevld Glass, doz.	6.00	7.00	6.00	....	....
Boxes contn doz.	1	½	1	½	1

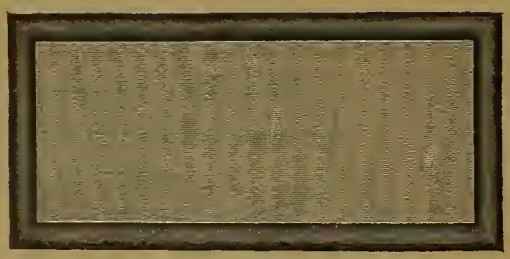


FLAT OVAL PATTERN

Japanned Frame

Nos.	21	24
Opening, inches	2x6	1⅝x5⅜
Plain Glass, per doz.	$5.00	$0.80
Beveled Glass, per doz.	*12.00	†4.00
Boxes contain dozen	1	1

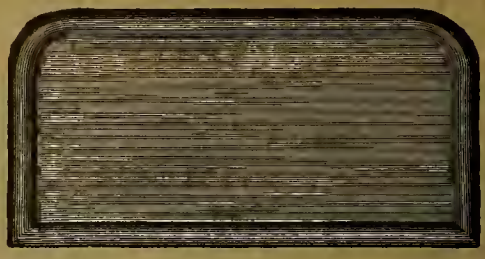
*Polished Brass Frame. †Japanned Frame.



RECTANGULAR PATTERN

Japanned Frame.

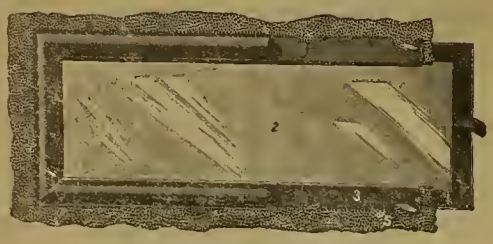
Nos.	7	12	14	15	20
Opening, inches	2⅜x5	1¼x5	4⅛x7	1⅝x5⅛	2⅝x5⅞
Plain Glass, doz.	$1.50	$0.50	$6.00	$0.70	$2.70
Bevld Glass, doz.	7.00	2.50	14.00	3.00	10.00
Boxes contn, doz.	1	1	½	1	½



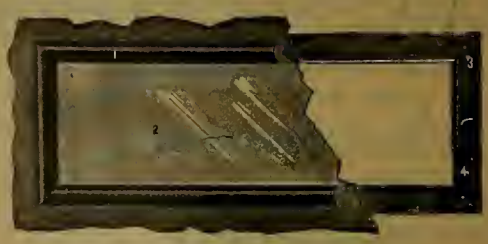
ARCH PATTERN

Japanned Frame

No.	17
Opening, inches	2½x5
Plain Glass	$1.50
Boxes contain, dozen	1



As attached inside of curtain



As attached outside of curtain

PERFECTION CURTAIN LIGHT

Size of Opening, inches, 1½x4⅝, Plain Glass.....Per Doz., $0.80

This Light presents the same finish on the inside as on the outside.

One Dozen per Box.

CURTAIN LIGHTS

No. 30

No. 23

CIRCULAR PATTERN

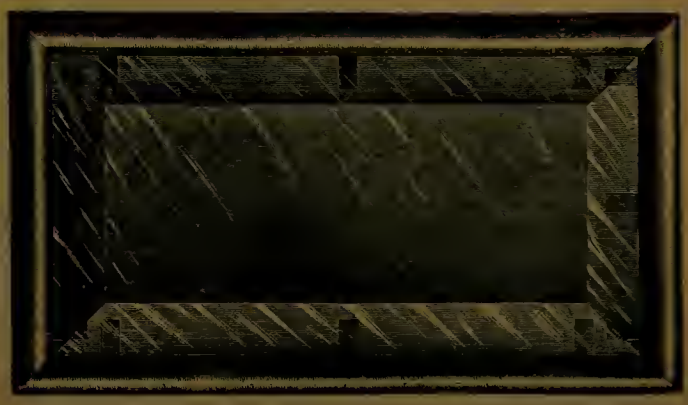
Nos.	*13	†30	*6½
Opening, inches	4¼	4	6½
Plain Glass, Japanned Frame, per doz.	$4.00	$4.00	....
Beveled Glass, Japanned Frame, per doz.	9.00	9.00	....
Beveled Glass, Silvered Frame, per doz.	....	....	$36.00

ROUND END PATTERN

No.	23
Opening, inches	4x6
Beveled Glass, Silvered Frame	Per doz., $15.00

Has metal filled molding, with tin starts for wood backs.

No. 33



No. 95 ¼

KEYSTONE PATTERN

Nos.	†18	*33
Opening, inches	3x4x7	3x4x7
Plain Glass, Japanned Frame, per doz.	$6.00	.....
Beveled Glass, Japanned Frame, per doz.	14.00	14.00

*Metal molding, ⅜-in., with tin starts for wood backs.

†Metal molding, prongs, and perforated back for curtains.

LANDAU PATTERN

No.	95¼
Opening, inches	5¼x9
Beveled Glass, Silvered Frame	Per doz., $45.00

No. 95¼ has ⅜-inch metal filled molding, with Tin Starts, and wide bevel French plate glass. For Wood Backs.

All of above, One-half Dozen per Box.

TRANSPARENT CELLULOID (Flexible Glass)

No. 15—Size, inches, 20x30	Per sheet, $2.50
No. 20—Size, inches, 20x30	" 3.00

Numbers of Celluloid indicate thickness in thousandths of an inch.

TRIMMING AN ART

Vehicle trimming, as a branch of business, has not received the attention it should. This is owing to the fact that it is an art, as well as a mechanical branch, and has a personality imparted to it by the artistic taste of the workman.

One difficulty, often overlooked until it is too late to remedy it, is the conformation of all parts to be trimmed; harmony is at all times an essential element.

A trimmer needs to be an artist; he must be an expert in colors, so that the style of trimming selected may produce the best results.

Defects in trimming reveal themselves more readily than those in any other department; putty gives the painter a level surface, even if it be fictitious, but a cushion that is askew, or not evenly tufted, stands forth in all its defects; if the leather on a top, dash, or fender, is badly drawn on, wrinkles tell the story of carlessness or want of skill; a cushion unevenly stuffed is sure to bring complaints from the user; bad stitching stares the buyer in the face, and all efforts to correct the evils after they are created result in failure.

The trimmer should nôt confine himself to the mere mechanics of his profession. A thorough knowledge of materials, their characteristics, adaptability to specific uses, grade and quality are equally as important as the mechanical knowledge. A study of colors, the effects produced by certain shades when given forms, harmony of the whole when grouped, inside ornaments and artistic designs, are all absolutely necessary, if the workman aspires to be more than a mere automaton.

TOPS, SUN-SHADES, CUSHIONS, ETC.

BUGGY,

EXTENSION

AND CANOPY

TOPS

CANOPIES AND

UMBRELLAS,

. SEAT CUSHIONS

AND BACKS

GENERAL INFORMATION

Subdivision of "Tops, Sun Shades, Cushions, Etc."

BUGGY TOPS are of two types, Three Bow and Four Bow, the latter being used in the construction of tops where extra strength and durability are required. The three bow top is consequently somewhat cheaper. On account of the greater angle of the front bow of the three bow top, less obstruction is presented in getting in or out of the vehicle.

The RAM'S HORN TOP, which is made both three bow and four bow, is simply a modification of the two types, the front, or Ram's Horn Bow, being attached at about the middle point of the main or the next adjoining bow, thus presenting little or no obstruction in getting in and out of the vehicle.

The principal characteristics of the PHAETON TOP are the short Bow Sockets which it is necessary to use on the high sides of the Phaeton Seat, and the usual use of curved top braces.

EXTENSION TOPS are necessarily used on long-bodied vehicles, having two or more seats, being called Extension Tops on account of the operation necessary in raising the top, when the forward portion of the top must be lifted or extended forward, since, when folded, the lower ends of the Bow Sockets are all concentrated at or near one point at the shifting rail Goose-Neck.

CANOPY TOPS are made for vehicles having one or more seats. The front standards in both instances are usually attached to the seat—to the front seat in vehicles having two or more seats,—whereas the rear standards, in the case of one seat canopies are attached to the inside or outside of the body at the rear corners, and, in the case of canopies for vehicles of two or more seats, are fastened through the bottom of the body in the rear corners, or to the back of the rear seat.

EXPRESS and other DELIVERY WAGON TOPS are constructed with long bows, which perform the functions both of top standards and ribs for the frame, being fastened to the wagon-bed by means of irons for the purpose.

All classes of tops may be equipped with detachable curtains for protection against the weather, etc., the rear curtain of light vehicles not usually being detachable, but being so arranged as to roll up from the bottom. All curtains on Express and Delivery Wagon Tops are usually roll-up curtains, similar to light vehicle back curtains.

CANOPIES are of two classes, tilting and stationary. The former may be tilted in any direction, but the latter, however, may be tilted sideways by loosening the set screw whereby the canopy is attached to the standard. Both classes of canopies are so attached that they may be removed from the vehicle and folded similarly to an umbrella.

WAGON UMBRELLAS and SUN SHADES are principally used as a protection from the sun, but in any case serve as a good cheap substitute for buggy tops and other forms of vehicle tops.

ADJUSTABLE CARRIAGE SUN SHADES are generally used on Canopy Tops and are so contrived as to be easily changed to different positions on the Canopy Top Standards, from the interior of the vehicle.

STORM APRONS are attached to the dash either by means of springs which hold the apron in position, or by means of a pocket in the apron into which the dash closely fits. A Storm Apron is supported by means of straps on either side which attach to Apron Hooks or Carriage Knobs, fastened inside of the bows. An opening is provided through which the reins pass when used on horse-drawn vehicles or through which the steering wheel passes when used on automobiles.

DUST HOODS should be provided in connection with all tops to protect the top lining and to give a finished appearance when the top is folded. Dust Hoods are fastened by means of curtain fasteners or carriage knobs on the seat back and front bow.

SEAT CUSHIONS are of two classes, Filled Cushions and Spring Cushions. In the former some sort of filling material alone is used; in the latter cushion springs are used, over the top of which some form of filling material is placed. Cushions are finished in Plain and Biscuit Tops, the latter style being accomplished by running pleats at right angles at regular intervals through the cushion covering and depressing the cushion top at the points of intersection of the pleats by use of tufting or other upholstering buttons, which also serve to prevent the cushion filling from shifting. Cushions are made both with and without a Fall, which is the term applied to the flap that hangs down from the front of the cushion over the opening in front of the seat.

THIRD SEATS are simply a convenience whereby a third passenger may be carried on a vehicle seat, being so shaped as to be placed between the two occupants of the vehicle seat without inconvenience, and may be folded when not in use.

SEAT BACKS are plain and pleated and consist of several classes: PART BACKS, DROP BACKS and SOLID BACKS. The first-named Backs do not fill up the full width from cushion to top of back and are supported by Arm Rails and Back Standards. Drop Backs are virtually false backs attached to part backs. Neither of these two classes of backs are equipped with springs. Solid Backs completely fill up the space from the seat to the top of the back, no back standards being used, but arm rails being applied to serve as a brace and finish. Solid backs are frequently equipped with springs underneath a facing of filling material, this upholstering being backed up with a solid wood back.

BUGGY TOPS

3-Bow Regular Top

GENERAL INFORMATION

Prices of Buggy Tops include the Shifting Rails, but not the seat, lazy back or cushion, all of which are extra.

Order all Tops by Number.

State whether three or four bow top is desired; if not stated, we will send three bow.

When top is ordered a certain distance "between the bows," we understand this to be the distance between the collars of the goose-necks and send tops to correspond.

If the Shifting Rail is not wanted, deduct from all tops 50 cents net.

All tops shipped crated flat or wrapped in burlap as ordered.

Crating material or burlap charged at cost.

Extra charge for tops shipped open or standing 75 cents to $1.25 each.

NET EXTRAS ON BUGGY TOPS

4 Bow Steel Sockets	$0.50
3 Bow Ram's Horn Steel Sockets	.50
4 Bow Ram's Horn Steel Sockets	.75
3 Bow Leather Covered Sockets	2.75
4 Bow Leather Covered Sockets	3.50
4 Bow Leather Covered Extension Sockets	4.50
3 Bow Leather Covered Ram's Horn Sockets	3.25
4 Bow Leather Covered Ram's Horn Sockets	4.00
Solid Shifting Rail	.50
Dust Pocket Lining	.50
Corded Head Lining	.50
Nickel Plated Top Prop Nuts	.25
Patent Fasteners (8) on Back Stays	.50
Whipcord Lining No. 40 to No. 70, inclusive	1.75
Whipcord Lining No. 80 to 100, inclusive	2.50

NET EXTRAS FOR IRONING SEATS

Buggy Seats for Folding Top	$1.50
Buggy Seats for Canopy Top	1.50
Surrey Seats for Folding Top	3.75
Surrey Seats for Canopy Top	2.25
Phaeton Seats for Folding Top	3.75
Phaeton Seats for Canopy Top	2.25
Spring Wagon Seats for Extension Top	3.00
Spring Wagon Seats for Canopy Top	4.50

Above prices apply for regular ironing only. Special ironing charged according to style of work required.

ORDERING DIRECTIONS

Do not ask us to guess particulars

Buggy Tops

Order by Number; state whether three or four bow and whether with green or blue lining, for example:

"1—No. 40, 3 Bow Top, green lined, for unironed seat, 35 inches out to out on top."

Measure all unironed seats from out to out, on top E to F.

If seat is ironed, give distance from center to center of holes in seat irons—S to W.

Orders for Tops will be filled with three bow, green lined, unless ordered otherwise.

Phaeton Tops

Give measurement from collar to collar of goose neck, A to A, if seat is ironed. If not ironed, so state and give measurement from out to out on top of seat, A to A.

Give length of back, out to out, B to B.

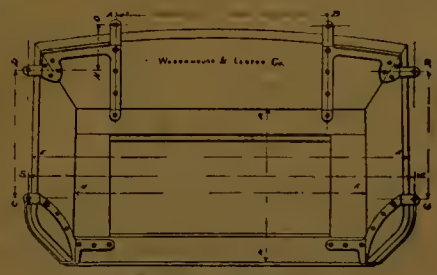
Measurement from seat bottom, F, up to a level line of goose neck centers as shown by dotted line, A to A, and down to F, or if seat is not ironed, to a level line on top of seat at that place.

From center of goose neck, A, to back side of seat back at B.

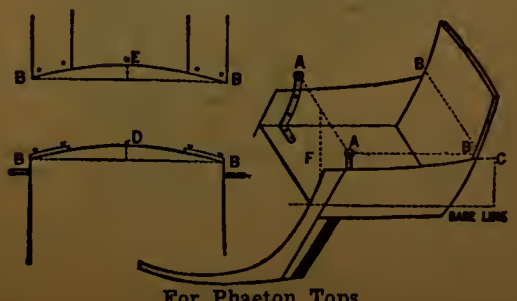
From bottom of back stay at C, down to a level line of seat bottom, as indicated by dotted line.

The upward curve of back panel from E down to B.

The outward swell of back panel from D, in center to line B.



For Buggy Tops



For Phaeton Tops

BUGGY TOPS

No. 0 ENAMELED DRILL

Cotton Drill Head and Stay Lining, back and side curtains, colored black enameled drill, wrought iron joints and adjustable rail.

42-inch Bows and under	Each,	$16.50
44-inch Bows and over	Extra,	1.00
No. 250 Union Cloth lining	"	.75
6 oz., all wool cloth lining	"	1.00
Phaeton Top	"	1.50

No. 00 ENAMELED DUCK

Cotton Drill Head and Stay Lining, back and side curtains, colored back enameled duck, wrought iron joints and adjustable rail.

42-inch Bows and under	Each,	$17.50
44-inch Bows and over	Extra,	1.00
No. 250 Union Cloth lining	"	.75
6 oz., all wool cloth lining	"	1.00
Imitation rubber drill lining, green or black	"	1.00
Phaeton Top	"	1.50

No. 000 HEATH'S ENAMELED DUCK

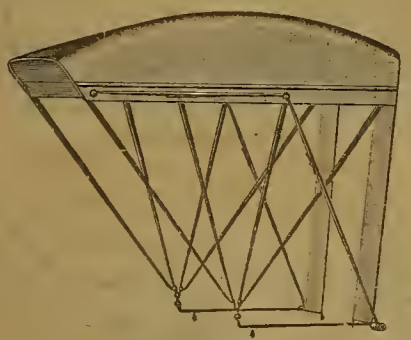
No. 250 Union Cloth Head and Stay Lining, back and side curtains, Heath's colored back enameled duck, wrougbt iron joints and adjustable rail.

42-inch Bows and under	Each,	$18.50
44-inch Bows and over	Extra,	1.00
6 oz., all wool cloth lining	"	1.00
Imitation rubber drill lining, green or black	"	1.00
Phaeton Top	"	1.50

No. 01 RUBBER DRILL, 18 OZ.

Cotton Drill Head and Stay Lining, back and side curtains, colored back rubber drill, wrought iron joints and adjustable rail.

42-inch Bows and under	Each,	$17.50
44-inch Bows and over	Extra,	1.00
No. 250 Union Cloth Liniug	"	.75
6 oz. All Wool Cloth Lining	"	1.00
Imitation rubber drill lining, green or black	"	1.00
Phaeton Top	"	1.50



4-Bow White Canvas Top

3-Bow Rams Horn Top

No. 10 RUBBER DRILL, 20 OZ.

Seven ounce, all wool cloth head and stay lining, back and side curtains, colored back enameled drill, wrought iron joints and adjustable rail.

42-inch Bows and under	Each,	$18.00
44-inch Bows and over	Extra,	1.00
Colored back rubber drill, back and side curtains	"	.75
Back Curtain, lined with 7-oz. all wool cloth	"	1.50
Imitation rubber drill lining, green or black	"	1.00
Phaeton Top	"	1.50

No. 30 WHITE COTTON DUCK

No. 8 Cotton Duck, unlined; wrought iron joints and adjustable rail. A very serviceable top, suitable for traveling salesmen, especially in warm climate.

42-inch Bows and under	Each,	$19.50
44-inch Bows and over	Extra,	1.25
7 oz. all wool cloth lining throughout	"	3.75
Imitation rubber drill lining throughout	"	2.50
Phaeton Top	"	1.50

No. 40 RUBBER DRILL, 22 OZ.

Seven ounce all wool cloth head and stay lining, back and side curtains, 18 oz. colored back rubber drill, wrought iron joints and adjustable rail.

42-inch Bows and under	Each,	$20.25
44-inch Bows and over	Extra,	1.25
Back curtain lined with 7 oz. all wool cloth	"	1.50
Imitation rubber drill liuing throughout	"	1.00
Phaeton Top	"	1.50

No. 50 RUBBER DRILL, 26 OZ.

Seven ounce all wool cloth head and stay lining, back and side curtains, 22 oz. colored back rubber drill, wrought iron joints and adjustable rail.

42-inch Bows and under	Each,	$21.00
44-inch Bows and over	Extra,	1.25
Back curtain lined, 7 oz. all wool cloth	"	1.50
Imitation rubber drill liniug throughout	"	1.00
Phaeton Top	"	1.50

BUGGY TOPS

4-Bow Regular Top

No. 55 RUBBER DRILL, 28 OZ.

Eight ounce all wool cloth head and stay lining, back and side curtains, 26 oz. colored back rubber drill, wrought iron joints and adjustable rail.

42-inch Bows and under	Each,	$22.50
44-inch Bows and over	Extra,	1.50
Back Curtain lined, 8 oz. all wool cloth	"	2.00
Imitation rubber drill liuing throughout	"	1.00
Phateon Top	"	1.50

No. 60 RUBBER DUCK, 32 OZ.

Eight ouuce all wool cloth head and stay lining, back and side curtains, 28 oz. colored back rubber duck, wrought iron joints and adjustable rail.

42-inch Bows and under	Each,	$24.75
44-inch Bows and over	Extra,	1.50
Back Curtain lined, 8 oz all wool cloth	"	2.00
Imitation rubber drill lining throughout	"	1.00
Phateon Top	"	1.50

No. 65 LEATHER QUARTER

Split Leather Quarters and Stays, 8 oz. all wool head and stay lining, back and side curtains, 26 oz. colored back rubber drill, wrought iron joints and adjustable rail.

42-inch Bows and under	Each,	$24.75
44-inch Bows and over	Extra,	1.50
Back and Side Curtains, lined, 8 oz. all wool	"	5.00
Imitation rubber drill lining throughout	"	1.00
Leather roof, buggy size	"	5.50
Leather Back Curtain, buggy size	"	4.00
Phaeton Top	"	1.50

No. 80 LEATHER QUARTER

Deep buffed leather quarters and stays, 8 oz. all wool head, stay nnd back curtain lining, side curtains, 26 oz. colored back rubber drill, wrought irou joints and adjustable rail.

42-inch Bows and under	Each,	$27.75
44-inch Bows and over	Extra,	1.50
Leather roof, buggy size	"	6.00
Leather Back Curtain, buggy size	"	4.50
Lined Side Curtains, 8 oz. all wool cloth	"	3.00
Phaeton Top	"	2.00

No. 100 LEATHER QUARTER

No. 1 Machine Buffed Leather Quarters and Stays, 9 oz. all wool cloth head, stay and back curtain lining, side curtains, 28 oz. colored back rubber drill, hand stitched front valance, wrought iron joints and adjustable rail.

42-inch Bows and under	Each,	$42.00
44-inch Bows and over	Extra,	3.00
Leather roof, buggy size	"	7.50
Leather Back Curtain, buggy size	"	6.00
Lined Side Curtain, 9 oz. all wool cloth	"	3.50
Phaeton Top	"	3.00

No. 110 DEEP BUFFED, FULL LEATHER

Nine ounce all wool head, stay and back curtain lining, side curtains, 28 oz. colored back rubber drill, patent fasteners on back stays, hand stitched front and back valances, wrought iron joints and adjustable rail.

42-inch Bows and under	Each,	$42.00
44-inch Bows and over	Extra,	3.00
Lined Side Curtains, 9 oz. all wool cloth	"	3.50
Leather Side Curtains	"	12.00
Phaeton Top	"	3.00

No. 120 MACHINE BUFFED, FULL LEATHER

Ten ounces all wool cloth head, stay and back curtain lining, side curtains, 28 oz. colored back rubber duck, patent fasteners or leather buckle loops on back stays, hand stitched front and back valances, leather covered sockets, wrought iron joints and adjustable rail.

42-inch Bows and under	Each,	$51.00
44-inch Bows and over	Extra,	4.50
Lined Side Curtains, 10 oz. all wool cloth	"	4.00
Leather Side Curtains	"	15.00
Phaeton Top	"	4.50

No. 130 HAND BUFFED, FULL LEATHER

Twelve ounce Indigo piece dye cloth liuing throughout, machine buffed leather side curtains, top full padded, patent fasteners or leather buckle loops on back stays, hand stitched front and back valances, leather covered sockets, wrought iron joints and solid rail.

A strictly first class top in every detail.

42-inch Bows and under	Each,	$102.00
44-inch Bows and over	Extra,	7.50
Phaeton Top	"	9.00

4-Bow Rams Horn Top

EXTENSION TOPS

4-Bow Extension

EXTENSION TOPS

For description of material used see corresponding numbers of Buggy Tops, Section 26.

No. 0—Enameled Drill	Each,	$28.50	No. 55—Rubber Drill	Each,	$36.75
No. 00—Enameled Duck	"	30.00	No. 60—Rubber Duck	"	39.00
No. 000—Heath's Enameled Duck	"	33.00	No. 65—Leather Quarter	"	39.00
No. 01—Rubber Drill	"	30.00	No. 80—Leather Quarter	"	43.50
No. 10—Rubber Drill	"	31.50	No. 90—Leather Quarter	"	52.50
No. 30—White Canvas	"	31.50	No. 110—Full Leather	"	59.00
No. 40—Rubber Drill	"	33.00	No. 120—Full Leather	"	90.00
No. 50—Rubber Drill	"	34.50	No. 130—Full Leather	"	165.00

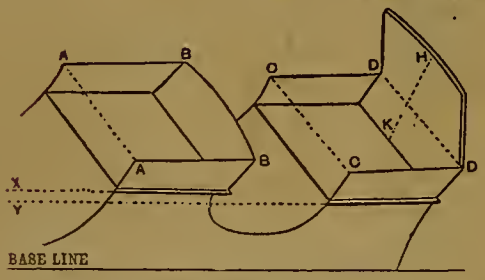
Extension Tops requiring Bows over 42 inches wide, extra cost.

Extension Tops longer than 64 inches, extra cost.

When Extension Tops larger than standard sizes or of other styles than four bow are required we will be pleased to quote prices upon receipt of full specifications.

MEASUREMENTS FOR EXTENSION TOPS

Set the body level and give the following measurements:

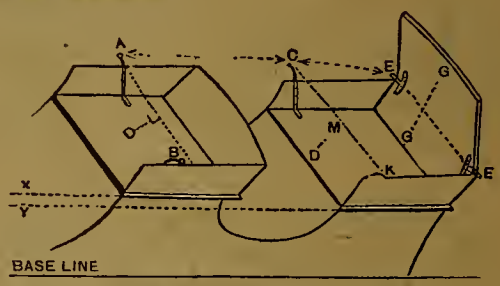


For Surrey Bodies, Not Ironed

A to A—Out to out at top of front seat.
C to C—Out to out at top of rear seat.
B to C—From top of back corner of front seat to the top of front of the rear seat.
D to D—Out to out of wood back on top of rear seat.
K to H—From bottom of seat in a straight line to the top of back.

If, in place of solid back panel as illustrated, the body is to have a narrow back to be attached by irons, so state and give the distance, K to H.

X to Y—The difference in the heights of the seats. State which seat is the higher.



For Surrey Bodies, Ironed

A to B—From eye to eye of front goose necks.
C to K—From collar to collar of rear goose necks.
E to E—Out to out of wood at back.
A to C—From eye of front to collar of rear goose neck.
C to E—From rear goose neck to prop iron.
D to L—From bottom of seat to top of goose neck on front seat.
D to M—From bottom of seat to top of goose neck on rear seat.
G to G—From bottom of seat in a straight line to the top of back. If, in place of solid back panel, as illustrated, the body has a narrow back attached by irons, so state and give distance, G to G.
X to Y—The difference in the heights of the seats. State which seat is the higher.

For Spring Wagons, or other Vehicles on which the two seats are on the same level, so state, and give the distance A to A, and C to C, and from B to C, as requested for Surrey Bodies, not ironed.

CANOPY TOPS

One Seat Canopy

FOR TWO-SEAT VEHICLES

No. 4—Enameled drill roof, colored cotton drill head lining, 5-inch bullion fringe, back and side curtains, colored back enameled drill. Complete with standards and body irons.....Each, $34.50
Without standards and body irons..... " 27.00
Tops over 6 feet 6 inches long, extra, each 6 inches or part thereof, net..... .75
Top only, without curtains, standards or irons.. " 14.50
No. 5—Enameled duck roof, 7 oz. all wool cloth head lining, 6 inch Genappe fringe, back and side curtains, 18 oz. colored back rubber drill. Complete with four standards and body irons..Each, $40.50
Without standards and body irons..... " 33.00
Top only, without curtains, standards or irons.. " 18.00
Tops over 6 feet 6 inches long, extra, each 6 inches or part thereof, net..... .75
No. 6—Enameled duck roof, 9 oz. all wool cloth head lining, 6-inch cord and tassel fringe, back and side curtains, 26 oz. colored back rubber drill. Complete, with four standards and body irons .....Each, $48.00
Without standards and body irons..... " 40.50
Top only, without curtains, standards or irons.. " 21.75
Tops over 6 feet 6 inches long, extra, each 6 inches or part thereof, net..... 1.15

Express Top

MEASUREMENTS

Give distance across top of seat, ont to out.
Give length, witdh and depth of body inside.

MEASUREMENTS

Give distance across top of seat, out to out.
Give width of body at rear end, out to out.
Give distance from bottom of body to top of side panel.
Give distance from bottom of body to top of seat.

FOR ONE-SEAT VEHICLES

No. 1—Enameled drill roof, colored cotton drill head lining, 5 inch bullion fringe, back and side curtains, colored back enameled drill. Complete, with standards and body irons.....Each, $20.25
Without standards and body irons..... " 17.25
Top only, without curtains or irons..... " 14.25
No. 2—Enameled duck roof, 7 oz. all wool cloth head lining, 6 inch Genappe fringe, back and side curtains, 18 oz. colored back rubber drill. Complete, with standards and body irons.....Each, $22.50
Without standards and body irons..... " 19.50
Top only, without curtains or irons..... " 16.50
No. 3—Enameled duck roof, 9 oz. all wool cloth head lining, 6 inch cord and tassel fringe, back and side curtains, 26 oz. colored back rubber drill. Complete, with standards and body irons..Each, $27.00
Without standards and body irons..... " 24.00
Top only, without curtains or irons..... " 21.00

Two-Seat Canopy

MEASUREMENTS

Distance across top of seat, out to out.
Length, width and depth of body outside.

EXPRESS OR STATIONARY TOPS

Frame is of oak, with second growth Ash Bows, mortised and well put together with screws and glue; neatly finished with Poplar strips; inside fiuished in hard oil varnish, wrought irons and detachable standards.

No. 11—Enameled drill roof and curtains.....Each, $39.00
No. 12—Enameled duck roof and curtains..... " 42.00
No. 13—Rubber drill roof and curtains..... " 46.50
No. 14—Rubber duck roof and curtains..... " 51.00
No. 15—No. 8 white cot. duck roof and curtains " 52.50
Colored back curtains .....Net, Extra, $1.50
Tops over 7½ feet long, extra, each 6 inches or part thereof, net..... 1.50

Above Tops shipped knocked down and crated. Crating extra at cost.

CANOPIES AND UMBRELLAS

IMPERIAL CANOPY

	"A" Grade	"B" Grade
48x48 inches, Buggy	Each, $25.00	$13.50
48x54 inches, Buggy	" 27.50	15.00
48x72 inches, Surrey	" 32.50	18.75
54x76 inches, Surrey	" 35.00	20.00

Both grades have fine steel frames and black enameled adjustable steel standards.

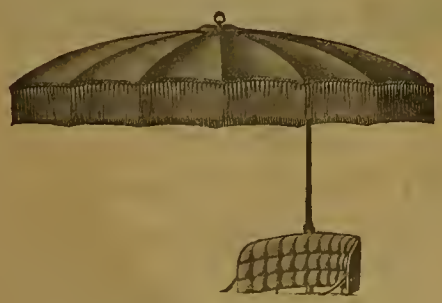
"A" Grade carried with green lining only.

"B" Grade carried, 48x48 and 54, with green, blue or whip cord lining, 48 and 54x72, with green lining.

Other colors of linings to match trimmings of vehicles can be furnished from factory.

"A" Grade is covered with cream colored imported English mohair, lined with imported wool twill, cravenetted and absolutely waterproof, and trimmed with best imported light drab mohair Genappe fringe.

"B" Grade is covered with extra quality light tan colored duck, closely woven and very dense, lined with whip cord or light weight fine quality duck, and trimmed with light drab Genappe fringe.



ROUND BUGGY UMBRELLA

No. 40—10 rib, 54 inches diameter.....Each, $7.50
Has black enameled adjustable steel standard.
Covered with water proof drill—tan, blue or green—and trimmed with Genappe fringe to match.

SQUARE BUGGY UMBRELLA

No. 50—48x48 inches.....Each, $10.00
This umbrella has black enameled adjustable steel standard. Covered with closely woven tan duck and trimmed with light drab Genappe fringe.

Attention is directed to the concealed ribs.

The umbrella is made with the ribs inserted into the pockets up to the point of their juncture with the braces, and the outer edge of the cover is corded. The former lends to the umbrella the appearance of being lined, while the latter is a shape retaining adjunct. Both add to the appearance, and the life of the umbrella.

TILTING BUGGY UMBRELLA

No. 6—10 rib, 54 inches diameter.....Each, $10.00
Has black enameled iron standard.
Covered with tan drill and trimmed with bullion fringe.

CANOPIES AND UMBRELLAS

CANOPY AND UMBRELLA STANDARD

Illustrating the standard and attachment furnished with Imperial Canopies, Round Umbrellas and Square Umbrellas.

The attachment from floor of body to top of lazy-back is suited to finished jobs. The cut shows attachment to piano box body; same application is used on front seats of surreys; is applicable to most all types of open work; requires no re-cutting; is adjustable in height by means of ferrule "F" at bottom, permitting an adjustment of about 5 inches. Cut "C" shows an enlarged coupling used at top of lazy-back.

ENGLISH TWO-STANDARD CANOPY

The above illustration shows a two-standard English Folding Canopy applied.

The appearance and general application of the Imperial two-standard canopy is the same as the English.

Neither of the above canopies are stocked, but can be furnished promptly from factory.

Ordering Directions

1. **Horizontal** distance from foot of dash to a line dropped from top of back on rear seat.
2. **Width** of seat across arm rails.
3. **Width** of job from out to out across fenders.
4. **Distance** from top of back on front seat to top of back on rear seat.
5. **Distance** from floor of body to top of front seat back.
6. **If one seat-back** (not seat board) stands higher than the other, state which one and how much.
7. **Distance** from top of front seat cushion to top of front seat back.
8. **Color** of upholstering material.
9. **Color** of gear. How much does the dash curve forward?
10. **English** or Imperial? If Imperial, A or B grade?

WAGON UMBRELLA

Complete with Attachments	Each
No. 75— 8 ribs, 38 inches long, covered with XXX buggy cloth, tan, blue or green	$3.25
No. 80—10 ribs, 38 inches long, covered with XXX buggy cloth, tan, blue or green	3.40
No. 85—10 ribs, 38 inches long, covered with heavy waterproof drill, tan, blue or green	4.00
No. 90—10 ribs, 38 inches long, covered with fancy striped duck, blue and white, or orange and white	4.65
No. 95—10 ribs, 38 inches long, covered with double face duck, tan outside, green inside	4.75
No. 100— 8 ribs, 40 inches long, covered with heavy dense duck, brown or green	4.30

ADVERTISING UMBRELLA

Complete, with attachments.....Per doz., $24.00

Special prices quoted on quantity lots.

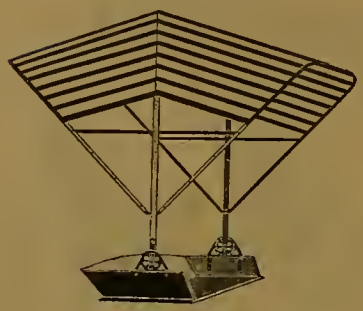
These umbrellas are furnished from factory only, in lots of not less than one dozen.

Six spaces are available for insertion of advertising matter which will be applied as ordered. Spread, 6 feet.

When ordering, state desired wording clearly.

The advertising umbrella is coming into general use as an efficient means of advertising. Up-to-date advertisers are purchasing these umbrellas, bearing their advertisements, and distributing same to users of wagons.

SUN SHADES, STORM APRONS AND DUST HOODS



*WAGON SUN SHADE

3-Bow with Attaching Irons

36 inches wide inside bows	Each,	$5.50
38 inches wide inside bows	"	5.50
40 inches wide inside bows	"	5.50
42 inches wide inside bows	"	5.50
44 inches wide inside bows	"	5.50
46 inches wide inside bows	"	5.50
48 inches wide inside bows	"	6.00
50 inches wide inside bows	"	6.00

*Blue and white striped duck or plain brown duck.

When ordering give width of seat out to out of flare.

ADJUSTABLE CARRIAGE SUN SHADE

For Canopy Tops

No. 1	Austria Black	Per Doz.,	$22.50
No. 3	Sateen	"	18.00
No. 6	Silesia, Green or Drab	"	15.00
No. 7	Cloth, Green, Blue or Drab	"	25.50
No. 9	Glorioso Silk, Green, Blue or Drab	"	31.50
No. 10	English Cloth, Green or Drab	"	36.00
No. 11	English Cloth, Green	"	45.00
No. 13	Glorioso Silk, Green, Blue or Drab	"	40.50
No. 14	Heavy Silk, Green, Blue or Drab	"	72.00

SUN SHADE EXTRAS

Rubbers	Per Doz. Pair,	$6.00
Clasps with Rubber Covered Hooks	" "	3.00

ADJUSTABLE APRON

POCKET APRON

Holden's Adjustable Storm Aprons

Attached with springs over top of Dash

No. 1	Phaeton size, 78 x 50 inches	Per Doz.,	$30.00
No. 2	Carriage size, 60 x 50 inches	"	20.00
No. 3	Buggy size, 50 x 48 inches	"	15.00

Will fit any size dash.

Dash Pocket Aprons

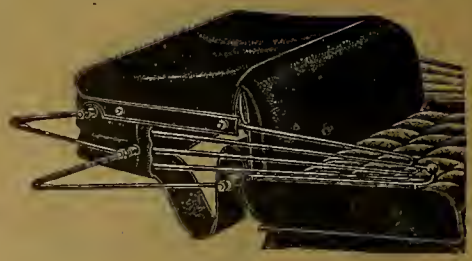
Fitted with attaching straps, and pocket to fit over Dash.

		Per Doz.
No. 126B	70x48 in. for dashes 24 to 32 inches long	$36.00
No. 226B	86x48 in. for dashes 34 to 39 inches long	42.00

Made of extra quality Heavy Rubber Drill.

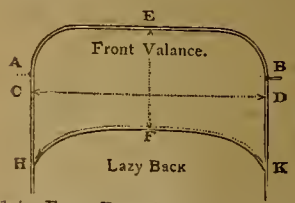
All corners subjected to strain are reinforced with leather patches. Made of best material and well finished, fitted with straps and line pockets.

When ordering give extreme length of dash.



DUST HOOD

Enameled Drill	Each,	$3.00
Enameled Duck	"	3.75
Rubber Drill	"	3.75
Rubber Duck	"	4.50



Measurements for Dust Hoods

Measure when top is flat as indicated by dotted lines

1st—From Prop A to Prop B around outside of front valance.
2d—From C to D or out to out of ends of front valance.
3d—From E to F or from front valance to cord on Lazy Back
4th—From H to K or from bow to bow over top of Lazy Back.

SEAT CUSHIONS

PLAIN TOP, EXCELSIOR FILLED

		Without Fall Each	With Fall Each
No. 1	Enameled Drill	$1.80	$2.10
No. 2	Enameled Duck	1.95	2.25
No. 3	Rubber Drill	1.95	2.25
No. 4	Rubber Duck	2.10	2.70
No. 5	Imitation Leather	2.10	2.70
No. 6	Artificial Leather	3.00	3.90
No. 7	White Cotton Duck	2.25	3.00
No. 8	Corduroy	3.75	4.50
No. 9	Split Leather	4.50	5.40
No. 10	Machine Buffed Leather, Black	5.00	6.20
No. 11	Machine Buffed Leather, Fancy	5.25	6.45
No. 12	14 oz. Wool Cloth	4.65	5.40

Add for Moss Top net 40c.

BISCUIT TOP, MOSS FILLED

		Without Fall Each	With Fall Each
No. 24	Enameled Duck	$4.30	$4.60
No. 25	Rubber Drill	4.15	4.90
No. 26	Rubber Duck	4.40	5.20
No. 27	Imitation Leather	4.40	5.20
No. 28	Artificial Leather	5.20	6.10
No. 29	White Cotton Duck	4.60	5.35
No. 30	Corduroy	6.40	7.40
No. 31	Split Leather	6.70	7.90
No. 32	Machine Buffed Leather, Black	7.65	9.15
No. 33	Machine Buffed Leather, Fancy	7.90	9.40
No. 34	14 oz. Wool Cloth or Whipcord	6.70	7.90
No. 35	16 oz. Wool Cloth or Whipcord	7.15	8.65
No. 36	18 oz. Wool Cloth or Bedford Cord	7.90	9.40

Directions for measurements of Cushions and Backs.

For Cushions, Distance from E to F, and X to Y.

For Falls, Distance from I to J, M to N and K to L.

For Lazy Backs (regular drop back), Distance across top of seat G to H, out to out, and distance from C to D.

For Solid Wood Panel Backs, Distance from G to H, P to O.

If back is curved send diagram, or paper pattern, latter preferable.

Colors of Cushion Material.

Imitation Leather: Green, Maroon or Russet.

Artificial Leather: Black, Green, Maroon or Russet.

Corduroy: Green, Blue, Brown or Drab.

Split Leather: Black or Green.

Fancy Machine Buffed Leather: Green, Maroon, Russet or Red.

Wool Cloth: Green or Blue.

Whipcord: Tan or Light Grey.

Bedford Cord: Tan or Light Grey.

Net Extras on Cushions.

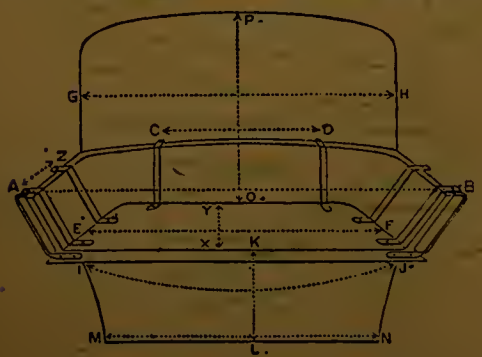
With Coil Cushion Springs	$1.50
Wood Frame or other Patent Spring Cushion	3.00
Hair Top	1.50
All Hair	3.00
Wings	.75
Trimming Seat Ends	1.50
Facing All Around	1.50

Cushions over maximum size 10% for each additional inch in width or length.

Standard Sizes of Cushions.

Maximum Sizes of Cushions are 15 inches wide and 36 inches long. For each additional inch in width or length add 10%. For instance a cushion 16 inches wide by 38 inches long would cost 30% Extra.

Order by Number: State whether Round or Square Corner Seat and whether cushion is wanted with or without Fall.



CUSHION MEASURING DIAGRAM

THIRD SEAT

Tapestry	Carpet Covered	Per Doz., $18.00
Velvet	Carpet Covered	" 21.00

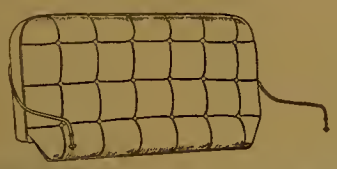
SEAT BACKS

MEDIUM BACK, BISCUIT OR PLEATED FRONT

6 inches wide, with irons. Excelsior filled

		Each
No. 1	Enamel Drill	$3.00
No. 2	Enameled Duck	3.30
No. 3	Rubber Drill	3.30
No. 4	Rubber Duck	3.60
No. 5	Imitation Leather	3.75
No. 6	Artificial Leather	4.50
No. 7	White Cotton Duck	3.75
No. 8	Corduroy	4.50
No. 9	Split Leather	4.80
No. 10	Machine Buffed Leather, Black (Moss filled)	5.85
No. 11	Machine Buffed Leather, Fancy (Moss filled)	6.00
No. 12	14 oz. Wool Cloth (Moss filled)	4.50
Deduct for Plain Front		Net .50
Deduct if wanted without Irons		Net .50
Add for Moss Filled		Net .50

Add for each inch in length over 36 inches 10%.



SOLID SPRING BACK, BISCUIT OR PLEATED FRONT ON SOLID BOARD BACK

Moss Filled

No. 44—Enameled Duck	Each,	$5.35
No. 45—Rubber Drill	"	5.50
No. 46—Rubber Duck	"	5.80
No. 47—Imitation Leather	"	6.00
No. 48—Artificial Leather	"	7.00
No. 49—White Cotton Duck	"	6.00
No. 50—Corduroy	"	7.30
No. 51—Split Leather	"	8.80
No. 52—Machine Buffed Leather, Black	"	9.30
No. 53—Machine Buffed Leather, Fancy	"	9.50
No. 54—14 oz. Wool Cloth or Whipcord	"	8.80
No. 55—16 oz. Wool Cloth or Whipcord	"	9.50
No. 56—18 oz. Wool Cloth or Bedford Cord	"	10.30

Colors of Back Material

Imitation Leather—Green, Maroon or Russet.
Artificial Leather—Black, Green, Maroon or Russet.
Corduroy—Green, Blue, Brown or Drab.
Split Leather—Black or Green.
Fancy Mach. Buffed Leather—Green, Maroon, Russet or Red.
Wool Cloth—Green or Blue.
Whipcord—Tan or Light Grey.
Bedford Cord—Tan or Light Grey.

FULL OR DROP BACK, PLAIN FRONT

Excelsior Filled

No. 15—Enameled Duck	Each,	$2.10
No. 16—Rubber Drill	"	2.25
No. 17—Rubber Duck	"	2.70
No. 18—Imitation Leather	"	2.70
No. 19—Artificial Leather	"	3.00
No. 20—White Cotton Duck	"	2.70
No. 21—Corduroy	"	3.75
No. 22—Split Leather	"	5.25
No. 23—14 oz. Wool Cloth or Whipcord	"	5.25

FULL BACK, BISCUIT OR PLEATED FRONT

Moss Filled

No. 24—Enameled Duck	Each,	$2.85
No. 25—Rubber Drill	"	3.00
No. 26—Rubber Duck	"	3.30
No. 27—Imitation Leather	"	3.45
No. 28—Artificial Leather	"	4.50
No. 29—White Cotton Duck	"	3.45
No. 30—Corduroy	"	4.80
No. 31—Split Leather	"	6.30
No. 32—Machine Buffed Leather, Black	"	6.80
No. 33—Machine Buffed Leather, Fancy	"	7.00
No. 34—14 oz. Wool Cloth or Whipcord	"	6.30
No. 35—16 oz. Wool Cloth or Whipcord	"	7.00
No. 36—18 oz. Wool Cloth or Bedford Cord	"	7.80

Extras on Full Backs

Irons and Narrow Board Back	Net	$1.50
Irons and Solid Board Back	"	2.50
Moss Top Nos. 15 to 23	"	.50
All Moss Nos. 15 to 23	"	1.00
All Hair	"	3.00

Backs over maximum size 10% for each additional inch width or length.

Maximum sizes 15 inches wide and 36 inches long.

Measurements for Seat Backs

See Measuring Diagram, Section 31.

If seat is Ironed give measurements A to B and C to D.
If seat is not ironed give width out to out on top.
If for Solid Board Back send paper pattern.

Order by Number and give measurements as per instructions.

COACH TRIMMINGS, HARDWARE AND ACCESSORIES

FANCY TRIMMINGS,

WINDOW, DOOR AND LANDAU HARDWARE,

FASTENERS, LOOPS AND MOLDINGS,

CARRIAGE AND LIMOUSINE ACCESSORIES

GENERAL INFORMATION

Subdivision of "Coach Trimmings, Hardware and Accessories"

FRINGE is used in trimming the edges of canopies and canopy tops, in latter instance being tacked to outside edge of top frame with Japanned or Covered Lining Nails. Consists of Head or Gimp and Body or Strands, former varying in width and design, and latter being designated either Bullion or Genappe, the first consisting of hard, tight-twisted yarn, and Genappe of soft, loose-twisted yarn.

HOLDER TASSEL.—To finish upper end of window-lifting broad lace.

CURTAIN TASSEL.—Center of bottom of window curtain.

CURTAIN CORD.—Guide for curtain, being passed through screw-eyes in ends of curtain stick or CURTAIN CORD-RUNNERS, and fastened to Curtain Roller Posts at top and by means of CURTAIN CORD HOLDER at bottom.

HAT-RACK CORD.—Two parallel pieces to inside of roof of top, forming convenient receptacle for hats, packages, etc.

SILK LACE FROG.—On the arm loop or rest, to finish or cover the seam where one end of the piece of broad lace, of which the arm loop is made, is attached to the face of the lace, in returning upward to form the loop.

LACE END LIFTER FROG.—Upper end of window lace, as a substitute for Holder Tassel.

LACE FROG.—On Guard String, as buttoning device.

GUARD STRING.—The ends fastened to the door, near the window sill, usually spread some inches from both sides of the Broad Lace, the Frog being buttoned to a loop in the Broad Lace, to support the latter and to prevent its tassel end from falling under foot or becoming jammed in the door.

CURTAIN ACORN.—To trigger of curtain roller.

CURTAIN PULL.—A substitute for Curtain Acorn.

LACE EYELETS.—To form button hole in window lifting broad lace, to enable buttoning over Ventilating Knob, which is placed on inside of door below window sill, to hold window in various partially open positions.

BROAD LACE.—To lower part of window frame with Glass Frame or Lace Plates, as a means of lifting window; for cushion facings; in connection with lining quarters or sides of closed vehicles; and to form arm loops or rests.

SEAMING LACE and PASTING LACE.—Separately and in conjunction (when together, of same pattern), for various purposes, to form welts on cushions, to finish tops of Seat Backs, in lining closed vehicles, etc. One edge of Pasting Lace is a selvage edge to afford attachment with paste.

FINISHING NAILS.—In closed vehicles, where necessary to fasten lining material directly to body or top frame where not expedient to cover nail or tack heads.

CURTAIN ROLLERS are either spring trigger or automatic, the former being maintained in any desired position by means of a pawl and rachet, which, when tripped by means of a trigger, permits the spring in the Curtain Roller to operate; the latter operates automatically in the same manner as a house window shade.

CURTAIN ROLLER POSTS are Stationary and Swiveled, the latter for the purpose of lowering the roller at one end when opening Landau Tops, etc.

CURTAIN ROLLER SUPPORT.—Used to maintain lower end of Curtain Roller in vertical position when lowered.

GLASS FRAME OR LACE PLATES.—Device whereby Broad Lace is attached to window frame. Narrow Lace Plate is used to attach a piece of Seaming Lace to front quarter windows of Landaus, etc., where only partial movement of window is necessary when lowering top.

GLASS FRAME REST and RUBBER HEAD TACK.—Used as window buffers.

GLASS FRAME FASTENER.—Used to prevent windows, other than door windows, from vibrating.

WINDOW SLIDE.—Used on window sill as a slide or rubbing strip for window lace.

WINDOW SPRINGS and ANTI-RATTLERS—Used to minimize vibration of the door windows.

SCREW KNOBS serve as buttons for pocket flaps, etc.

VENTILATING KNOB.—Fastened below window sill. Window Lace is buttoned over Knob (Lace Eyelet forming button hole), to maintain window in partially raised position.

HEAD SCREWS.—Fasteners for broad lace used as arm loops, for pull-to handles, etc.

FLAT- and ROUND-HEAD SCREWS are used as follows: PLATED and BRASS to attach fancy top props, curtain rollers, fancy inside fittings, hearse fixtures, fancy woodwork, auto curtain fasteners, seat irons, tug stops, etc.; FLAT-HEAD IRON to attach top props, concealed joints, hinges, woodwork ,etc.; ROUND-HEAD BLUED to attach cushion straps, etc.

DOOR STOPS and DOVETAILS are so mortised into the door and door frame as to serve respectively as a buffer and door closing guide.

SILL PLATES.—On door sill, to prevent wear, etc.

LANDAU FLAPPERS.—Act as window slides when window is raised and turn or flap down, covering opening at window sill, when window is lowered.

CONCEALED HINGES are so mortised in as to be concealed from view.

STRAIGHT HINGES and CURVED HINGES.—Former is upper door hinge and latter lower door hinge, curved to equalize curve of door and maintain same in horizontal position when open.

BACK FLAP HINGES.—Used on Buggy Boots, etc.

SPRING LOCKS.—In doors of panel top wagons, etc.

LEVER LOCKS.—Used in vehicle doors where accessibility to lock from inside of vehicle is desired.

TONNEAU DOOR LOCKS are equipped with extra bolt with which door may be securely fastened by giving the handlo an extra turn ,etc.

BOX or MORTISE LOCKS.—In vehicle lockers, etc.

TAILBOARD BOX LOCKS.—On tailhoards of traps, etc.

CLUB and DROP HANDLES.—The selection of either of these styles for use in connection with door locks is dictated solely by taste and convenience.

INSIDE HANDLE—Used on inside of door, where no top or lever lock handle is used.

PULL-TO HANDLE.—Fastened to inside of door for convenience in closing door from inside.

TONNEAU SIDE HANDLE, FOOTBOARD HANDLE and WAGON HANDLE.—Placed at points of access on various vehicles to asisst in getting in.

HANDLE NUTS and WASHERS are used in fastening Club and Drop Handles to lock.

LANDAU TOP FASTENERS serve to secure the two parts of the Landau Top together when closed, and for fastening detachable automobile tonneaus.

TAILBOARD FOOT CHAINS and FASTENERS are used on tailboards of dog carts, traps, etc.

FOOTMAN, CUSHION STRAP and KICKING STRAP LOOPS.—To attach door stop straps, cushion straps, kicking straps, top stay straps, running board straps, etc.

CARRIAGE DOOR MOLDING.—Used on sides of vehicle doors.

LOCKER MOLDING.—Used on automobile locker doors, and as a finisher on automobile bodies, etc.

FOOTBOARD MOLDING.—On edge of automobile footboards to give finish and hold matting in position.

IMITATION STITCH MOLDING.—Used for finishing the sides and quarters of Landaus, on tops of buggy seat backs, etc.

GLASS FRAME MOLDING.—Serves to protect the edges of hard finished window frames.

OVAL and ANGLE MOLDNG.—Used on closed carriage tops, on buggy seat backs, on automobile bodies, etc.

MOLDING FINISHERS.—Used to finish off ends of oval and angle molding.

RATTAN MOLDING.—Used .to finish edges of Canopy Tops, in forming design of buggy bodies, etc.

RATTAN SADDLE REEDS.—Used as a substitute for seaming cord in forming welts, etc.

TOILET and CARD CASES, ASH TRAYS, ETC., are used in all well-equipped and complete closed vehicles.

SPEAKING TUBES furnish a convenient means of conveying orders to driver, the megaphone type enabling the driver to receive orders without removing the hands from reins or steering wheel.

PARASOL and UMBRELLA HOLDERS.—Attached at convenient points to serve as parasol and umbrella hangers.

UMBRELLA DRAINERS and WATER TUBES are so placed in the floor of the vehicle as to drain water from umbrellas or water-proofs in wet weather.

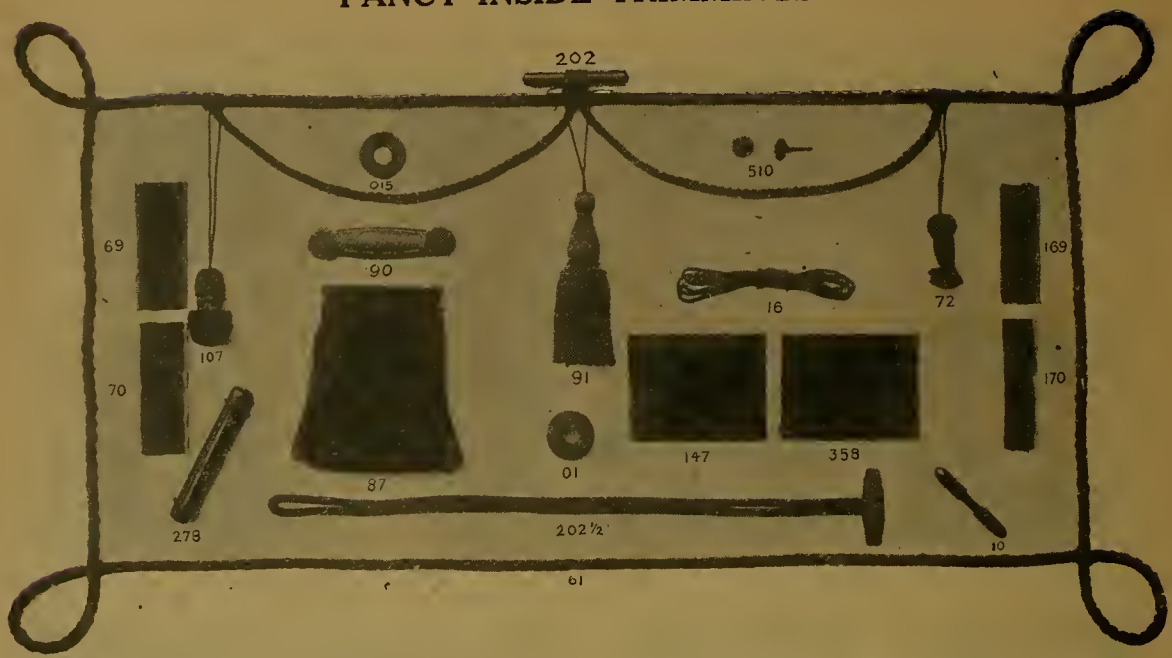
BELLS are single stroke and repeating, former operated by BELL PULLS, and latter by means of push button, lever and vibrating springs.

FRINGE

	Number	Width Inches	Head	Description	Color	Per Doz. Yds.
Silk Bullion	629	6	Deep	Medium Weight	Green or Blue	$10.00
	30	4	Narrow	Light Weight	Green, Blue or Drab	3.50
	619	5	Narrow	Medium Weight	Green or Blue	3.75
Worsted Bullion	620	5	Narrow	Heavy Weight	Green, Blue, Brown or Carmine	4.75
	375½	6½	Deep	Heavy Weight	Green or Blue	7.50
	624	7	Deep	Light Weight	Green	5.50
	669	7	Deep Netted	Light Weight Soft Twist	Green	4.00
	601	5	Medium Fancy	Light Weight	Green or Blue	3.75
	579	6	Deep Fancy	Medium Weight	Green	4.00
	579½	6	Deep Fancy	Cord and Tassel	Green	5.50
	178	7	Deep Fancy	Knotted Tassel	Green or Blue	8.00
Worsted Genappe	193	7	Deep Fancy	Double Cord and Tassel	Green	8.00
	194	7	Deep	Single Cord and Tassel	Green	7.00
	600	7	Deep Fancy	Medium Weight	Green, Blue or Drab	4.50
	600½	7	Deep Fancy	Single Cord and Tassel	Green, Blue or Drab	5.50
	612	7	Deep	Light Weight Bullion Body	Green	4.50
	615	7	Deep Fancy	Loop Tassel	Green, Blue or Drab	7.50
	197	7	Narrow Gimp	Imperial Canopy	Drab	6.00
Cotton Genappe	613	7	Deep	Loop Tassel	Green, Blue or Mottled	6.00
	579	6	Deep Fancy	Medium Weight	Green	2.50

3 dozen yards per box.

FANCY INSIDE TRIMMINGS



Tassels

No. 87 Holder Tassel, heavy silk bullion, green, blue, drab or maroon, 2½ inches wide ..... Per doz., $12.00
No. 91 Curtain Tassel, heavy silk bullion, green, blue, drab or maroon ..... " 6.00

Cords

No. 16 Curtain Cord, silk cable, green, blue, drab or maroon, 3/32-inch diameter ..... Per doz. yards, .75
No. 61 Hat-rack Cord, silk cable, green, blue, drab, or maroon, ¼-inch diameter ..... " " 4.00

Frogs

No. 90 Silk Lace Frog, tufted end, green, blue, drab or maroon ..... Per doz., 4.50
No. 278 Lace End Lifter Frog, celluloid, black ..... " 12.00
No. 10 Lace Frog, celluloid, black or white ..... " 4.00

Guard Strings

No. 202 Rosewood Frog, with silk cords or braids, green, blue, drab or maroon ..... " 6.00
No. 202½ Lace Covered Frog, with silk cords or braids, green, blue, drab or maroon ..... " 9.00

Acorns

No. 72 Curtain Acorn, green, blue, drab or maroon ..... " 3.00

Pulls

No. 107 Curtain Pull, green, blue, drab or maroon ..... " 3.00

Eyelets

No. 015 Silk Eyelet, green, blue, drab or maroon ..... " 4.00
No. 01 Lace Eyelet, celluloid, black or white ..... " 7.00

Broad Laces

No. 147 Silk Faced, green, blue, drab or maroon, 2½ inches wide ..... Per yard, 1.50
No. 358 Silk Faced, green, 2½ inches wide ..... " 1.50

Seaming Laces

No. 69 Worsted, Silk Figured, green, blue, drab or maroon ..... " .25
No. 70 Worsted, Plain, green ..... " .25

Pasting Laces

No. 169 Worsted, Silk Figured, green, blue, drab or maroon ..... " .25
No. 170 Worsted, Plain, green ..... " .25

Finishing Nails

No. 510 Silk, green, blue, drab or maroon ..... Per doz., .75

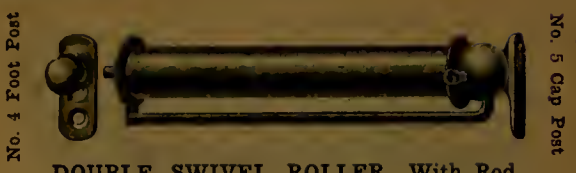
Cushion Webbing

No. 180 Worsted, green, blue, drab or maroon, ¼ inch wide ..... Per yard, .35

CURTAIN ROLLERS AND ACCESSORIES

PLAIN ROLLER

No. 110—Sprg. Trigger, silv. pltd, 12 to 36-in..Per pair, $3.50



DOUBLE SWIVEL ROLLER, With Rod

No. 54—Sprg. Trigger, silv. pltd, 17 to 24-in...Per pair, $7.00
Will swing two ways, down, and around under roof.

AUTOMATIC SPRING ROLLER

Will catch at any height

Per Pair

No. 700—Plain Post, silver plated, 18 to 36 inches....$4.00
No. 706—Swivel, Slotted Post, with rod, silver plated 18 to 22 inches..... 6.00

SINGLE SWIVEL ROLLER, With Rod

Per Pair

No. 11—Spring Trigger, silver plated, lengths 17 to 24 inches $5.50

When ordering curtain rollers, give number of roller and length inside of collars

A slight additional charge made for siugle curtain rollers; when ordering be sure to state whether for right or left haud.

CURTAIN ROLLER EXTRAS

No. 1P—Cap Post, plain, silver plated.....Each, $0.60
No. 1S—Cap Post, Swivel, silver plated..... " .65
No. 5 —Cap Post, Double Swivel, reversible base, silver plated..... " .75
No. 1—Foot Post, silver plated.....Each, $0.50
No. 4—Foot Post, silver plated..... " .50
No. 10—Foot Post, silver plated..... " .50
Extra Springs for Nos. 11, 54 and 110.....Per pair, .50

CURTAIN ROLLER SUPPORT

No. 1550—Landau Roller Supports, silv. pltd. Per pr., $1.25
No. 2—Cord Holder, celluloid, black.....Per doz., 6.75
No. 2—Cord Holder, celluloid, ivory..... " 6.75

CURTAIN CORD HOLDER

No. 1280—Cord Runner, celluloid, black.....Per doz., $7.20
No. 1280—Cord Runner, celluloid, ivory..... " 7.20
A complete Curtain Cord Holder consists of two parts.

CURTAIN CORD RUNNER

CURTAIN HOOKS AND EYES

Screw Eye, silver plated.....Per doz.,$0.25
Celluloid Screw Hook, black..... " 4.50
Celluloid Screw Hook, ivory..... " 4.50

CURTAIN CORD

No. 16—Silk, green, blue, drab or maroon.Per doz. yds., $0.60
Two dozen yards per Skein.

WINDOW FIXTURES

Irving's Patent

No. 2

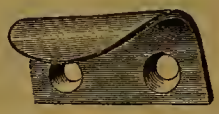
No. 1

GLASS FRAME OR LACE PLATES

Irving's, silver plated, with screws and rivets. Per doz., $5.00

No. 1—Brass or silver plated, inc. screws.... Per doz., $2.00
No. 2—Brass or silver plated, inc. screws.... " 1.75

No. 3



No. 4

Glass Frame Rest

Rubber Head Tack

GLASS FRAME LIFTS

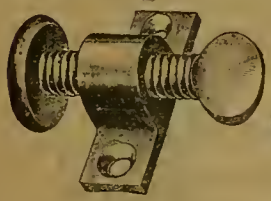
Per doz.

No. 3—Silver electro plated, including screws.....$4.00
No. 4—Silver electro plated, including screws..... 3.00

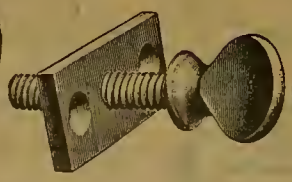
RESTS AND TACKS

Per doz.

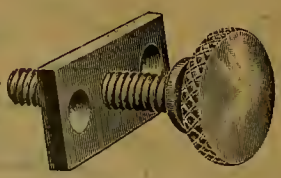
No. 1—Glass Frame Rests, Brass, finished for painting. $0.80
No. 2—Rubber Head Tacks, ⅝-inch long..... .20



No. 65



No. 75



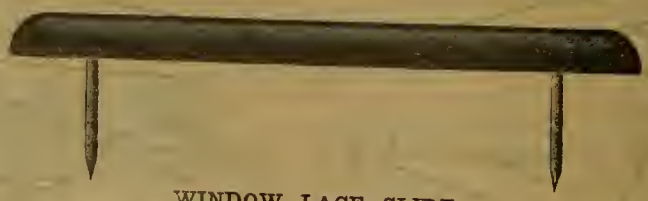
No. 75½

No. 160

GLASS FRAME FASTENERS

No. 65—Silver electro plated.....Per pair, $1.80
No. 75—Silver electro plated..... " 1.70
Nos. 75 and 75½ are usually applied on the front quarters of Landau Glass Frames.

No. 75½—Silver electro plated.....Per pair, $2.00
No. 160 —Silver electro plated.....Each, 2.00
No. 160 is usually applied at center of Glass Frames of partitions of Broughams or Rockaways.



WINDOW LACE SLIDE

No. 2 Celluloid

No. 2—Celluloid, black.....Per doz., $6.00
No. 2—Celluloid, ivory..... " 6.00

All of above illustrations are exact size.

WINDOW FIXTURES, ETC.

No. 1. Plain Pattern.

No. 2. Flanged Pattern.

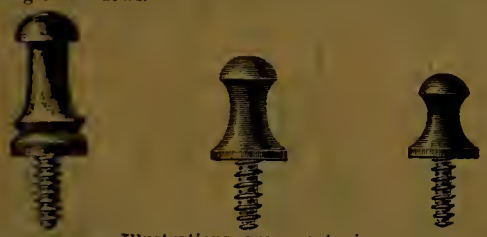
No. 3. Flanged Pattern.
Illustrations are exact size.

WINDOW SPRINGS

Made of steel, tempered and japanned

	Per doz.
No. 1—Plain, Japanned, interchangeable, for screws	$0.60
No. 2—Flanged, Japanned, rights and lefts, to drive on	.75
No. 3—Flanged, Japanned, rights and lefts, to nail on	.90

These springs are easily applied and will prevent all rattling of windows.



Illustrations are exact size.

Small Medium Large

CELLULOID SCREW KNOBS

Small,	black or ivory	Per doz., $2.25
Medium,	black or ivory	" 2.70
Large,	black or ivory	" 3.75

Illustrations show size of head only.

Small Large

HEAD SCREWS

Small Head, black or ivory.....Per doz., $0.75
Large Head, black or ivory..... " .75
Stock Sizes:
Small Head, No. 10, ¾, ⅞, 1 and 1¼-inch.
Large Head, No. 10, ⅞, 1 and 1¼-inch.

A. Rubber Core.
B. Wood Sides.
C. Black Muslin Cover.
D. Window

Mulford's Tucker's Roller

Mulford's Strips, ⅝x24 inches.....Per pair, $1.00
To be covered with cloth to match trimming of carriage.
Is both weather strip and anti-rattler.

Tucker's Anti-Rattlers.....Per doz., $2.50
Made of pure rubber, with metal eyelets.

Roller Window Anti-Rattlers.....Per doz., $1.00
¾, ⅞, or 1-inch diameter.
Fastened to rabbet strip at top of window, pressing against sash frame as window passes to position.

Illustrations are exact size.

Plated Celluloid

VENTILATING KNOBS

For holding the glass frame lace in any position

Silver Electro Plated		Per doz., $2.00
Celluloid,	black, with brass plates	" 4.50
Celluloid,	ivory, with brass plates	" 4.50
Extra Brass Plates		" 1.50

Silver-plated and Polished Brass Round- and Flat-Head Screws—Flat-Head and Round-Head-Blued Iron Screws

No.	1/2 Inch Brass per Gro.	1/2 Inch Iron per Gro.	5/8 Inch Brass per Gro.	5/8 Inch Iron per Gro.	No.	3/4 Inch Brass per Gro.	3/4 Inch Iron per Gro.	No.	7/8 Inch Brass per Gro.	7/8 Inch Iron per Gro.	1 Inch Brass per Gro	1 Inch Iron per Gro.
4	$1.08	.75	$1.15	.75	5	$1.40	.82	8	$2.20	$1.00	$2.45	$1.05
5	1.20	.78	1.30	.78	6	1.55	.85	9	2.50	1.05	2.80	1.10
6	1.30	.80	1.40	.82	7	1.75	.90	10	2.90	1.15	3.15	1.20
7	1.45	.84	1.60	.86	8	2.00	.95	11	3.35	1.25	3.65	1.30
8	1.65	.90	1.85	.92	9	2.30	1.00	12	3.70	1.35	4.10	1.40

One Gro. per Box. Plated and Brass Screws,—same list.
Iron and Brass Screws subject to varying discounts.

DOOR FIXTURES

(Composition.) (Rubber, see Letter C.)

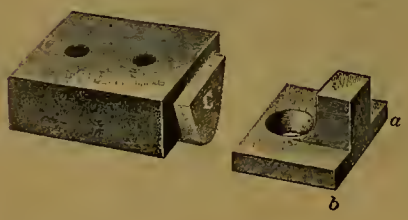


Illustration is three-quarters of full size.

DOOR STOP WITH BUFFER

Per pair

No. 5 —Width 1 3/16-inch A to B, length 1½-inch.....$1.50
No. 5½—Width 1 3/16-inch A to B, length ¾-inch..... 1.00
Fitted in the best possible manner. Has ctsk. screw holes.

(Composition.) (Rubber, see Letter C.)

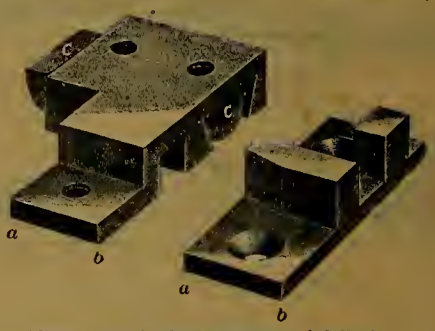
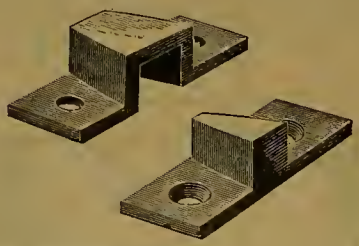


Illustration is three-quarters of full size.

DOVETAIL WITH BUFFER

Per pair

No. 6—Width 1 1/8-inch A to B, length 2⅝-inch.....$2.50
Fitted in the best possible manner. Has ctsk. screw holes.



DOVETAIL

Malleable Iron

No. 1—2 inches long, ⅝-inch wide.....Per doz., $2.00
No. 2—2 inches long, ¾-inch wide..... " 2.40
No. 3—2¼ inches long, ⅞ inch wide..... " 2.70
This dovetail is nicely fitted and has ctsk. screw holes.

SOLID RUBBER SILL PLATE

Canvas Lined

No 777—1¾ x 11 inches.....Per pair, $0.50

LACE PATTERN SILL PLATE

Per pair

No. 5330—2 x 12 inches, Japanned on composition.....0.40

PHAETON SILL PLATE

Per pair

No. 1070—2 x 11 inches, Japanned on composition.....$0.45
No. 1070—2 x 11 inches, Silver Plated on composition. 1.20

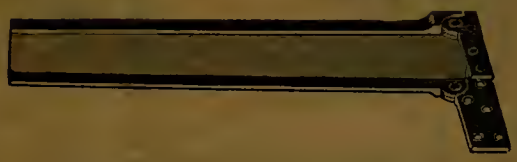
LANDAU SILL PLATE

No. 2—1¾x16 inches, Silver Plated on Brass.....Per pair, $3.00

DOOR FIXTURES

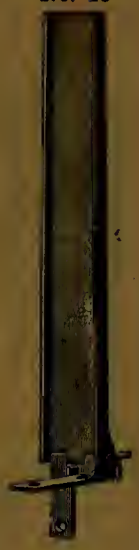
No. 1*

No. 3*



No. 4†

No. 10*



No. 5* showing leg detached

LANDAU FLAPPERS

With Anti-Rattling Springs

No. 1—Malleable Iron Flapper	Per set, $4.50	No. 5—Malleable Iron Flapper	Per set, $4.50
No. 3—Malleable Iron Flapper	" 4.50	No. 10—Mall. Iron Flapper, Watertight Joint,	" 5.25
No. 4—Malleable Iron Flapper	" 4.50	Extra Anti-Rattling Steel Springs	Per doz., $1.50

Four Flappers to a set. Single Flappers one-third the price of a set.

*Illustrations show right hand flappers. †Illustration shows left hand flapper.

All above illustrations about one-quarter of full size.

One set per box.

Closed Open

Illustration Shows Left-Hand Hinge.

Perfection

Closed Open

Illustration Shows Left-Hand Hinge.

Schwind's Patent

CONCEALED HINGES

No. 3 Size Pillar Plate, 1½x2¼ inches...Per set (4) $10.00

Forged hook and hanger. Composition front plate.

This hinge was made in response to a demand for a door hinge embodying the best features of other concealed hinges, and at the same time furnishing a hinge, which, when the Carriage Door is open, will not show an opening or hole in the Pillar of the Carriage. The door can be removed from the Pillar by taking out the two machine screws, which will release the hook.

Size Pillar Plate	Opening A to B	Width D to E	Per Set (4)
No. 0—1⅝x2⅞-inch.	⅞-inch.	1⅝-inch.	$5.50
No. 1—1¾x3 -inch.	1¼-inch.	2⅛-inch.	6.00
No. 2—2 x3¼-inch.	1⅜-inch.	2⅜-inch.	7.00
No. 3—2⅛x3¾-inch.	1¾-inch.	2½-inch.	8.00
No. 4—2⅜x4 -inch.	1⅞-inch.	2¾-inch.	9.00
No. 5—2⅝x4⅛-inch.	2 -inch.	3 -inch.	10.00

Plates and knuckles of wrought iron.

One set per box.

DOOR FIXTURES

Straight Pattern

Curved Pattern

DOUBLE JOINT COACH HINGES

Malleable Iron

Straight

1¼-inch wide.

Length, inches....	1¼	1½	1¾	2
Per dozen.....	$1.50	$1.65	$1.80	$1.95
Length, inches.....	2¼	2½	2¾	3
Per dozen	$2.10	$2.25	$2.40	$2.55

1½-inch wide.

Length, inches...	1½	1¾	2	2¼	2½
Per dozen.....	$2.25	$2.40	$2.55	$2.80	$3.00
Length, inches..	2¾	3	3¼	3½	4
Per dozen.....	$3.25	$3.55	$3.90	$4.30	$5.00

1¾-inch wide.

Length, inches..	1½	1¾	2	2¼	2½	2¾
Per dozen.....	$3.00	$3.00	$3.00	$3.30	$3.60	$4.00
Length, ins. 3	3¼	3½	3¾	4	4½	5
Per dozen.	$4.50	$4.90	$5.25	$5.65	$6.00	$6.75	$7.50

1¼ and 1½-in. wide, 2 doz per box; 1¾-in. wide, 1 doz. per box.

Curved

1¼-inch wide.

Length, inches	2¼
Per Doz.	$3.55
Length, inches	3¼
Per dozen.....	$4.20

1½-inch wide.

Length, inches	2¼	2½
Per dozen.....	$4.20	$4.65
Length, inches	3	3½
Per dozen.....	$5.65	$6.40

1¾-inch wide.

Length, inches.....	2¼	2½	3
Per dozen.....	$4.65	$5.10	$6.15
Length, inches	3½	4	4½	5
Per dozen.....	$7.50	$9.00	$9.60	$13.15

One dozen per box.

Electro Brass Plated

Straight

1½-inch wide.

Length, inches.....	2	2½	3	3¼
Per dozen.....	$7.50	$8.25	$9.10	$9.60

1¾-inch wide.

Length, in.	2¼	2½	2¾	3	3¼	3½	4
Per dozen..	$8.70	$9.10	$10.00	$10.40	$10.90	$11.40	$12.75

Measurements given are over all, viz: extreme length and width.

One dozen per box.

Curved

1½-inch wide.

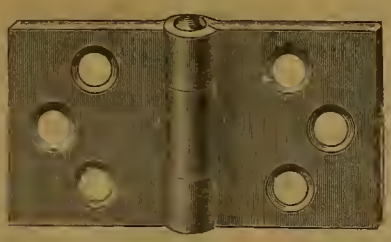
Length, inches.....	2½	3
Per dozen.....	$10.50	$11.90

1¾-inch wide.

Length, inches.....	3½	4	4½	5
Per dozen.....	$16.25	$18.25	$20.25	$22.25

Are reversible, and applicable to either right or left hand.

One dozen per box.

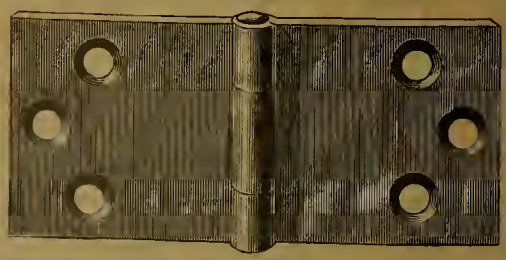


WROUGHT STEEL BACK FLAP HINGE

Bright Steel, 1¾x1¾ inches.....Per doz. pair, $1.00

Length when open, 3⅛-inch.

One dozen pair per box.



WROUGHT STEEL BACK FLAP HINGE

Bright Steel, 2 x 2 inches.....Per doz. pair, $1.70

Length when open, 3⅝-inch.

One dozen pair per box.

LOCKS

NO. 0 SPRING LOCK

No. 0—Face Plate 1⅛x2⅞ inches.....Per dozen pair, $9.00

NO. 1 SPRING LOCK

No. 1—Face Plate ¾x3⅜ inches.....Per dozen pair, $10.25

NO. 2 SPRING LOCK

No. 2—Face Plate ⅞x3¾ inches.....Per dozen pair, $12.00

NO. 7 SPRING LOCK

No. 7—Face Plate ¾x3¾ inches.....Per dozen pair, $14.50
(Extreme width at bolt, 1⅝ inches)

One-half Dozen Pair per Box.
Illustrations show Right-hand Locks.

BOX OR MORTISE LOCKS

Depth.	Size Face Plate.	Per Doz. Pair.
⅝-inch.	2¾x¾ inches	$3.60
¾-inch.	2⅞x¾ inches	3.60
⅞-inch.	3⅜x¾ inches	5.40
1-inch.	4 x⅞ inches	9.00

⅝, ¾ and ⅞-in., 1 doz. pr. per box; 1-in., ½ doz. pr. per box.

TAIL BOARD BOX LOCK

No. 8—4x1⅞ inches, with Striker.....Per doz., $10.20

These Locks are screwed on the lining or door the same as lever locks, where a thin lock is required; used on Tail-Boards and all light work that contains folding doors and trap tail gates.

One-half Dozen per Box.

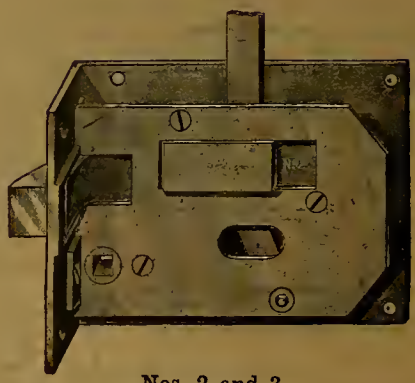
LOCKS

TOP LEVER

No. 1

Size.	Depth of Face.	Height of Lock Bolt.	Per Pair.
No. 1—5½x4½ inches.	1⅝ inches.	1¼ inches.	$5.50

Shows rear of Lock with cover removed.



Nos. 2 and 3

Size.	Depth of Face.	Height of Lock Bolt.	Per Pair.
No. 2—5⅛x4 inches.	1⅝ inches.	1¼ inches.	$5.00
No. 3—4½x3⅛ inches.	1 1/16 inches.	⅞ inch.	4.50

Nos. B1, B2, B3

Size.,	Depth of Face.	Per Pair.
No. B1—5¼x4	1⅜ in.	Handle Hole above bolt..$5.75
No. B2—5¼x4	1⅜ in.	Handle Hole below bolt.. 5.75
No. B3—4¾x3½	1 1/16 in.	Handle Hole above bolt...5.25

Nos. 04 and 5

Size.	Depth of Face.	Height of Lock Bolt.	Per Pair.
No. 04—3⅝x2¾ inches.	⅞ inches.	1/16 inches.	$3.60
No. 5—3⅝x2¾ inches.	1 inch.	⅝ inches.	3.60

All of the above, 1 pair per Box.
Illustrations show Left-hand Locks.

LOCKS

TONNEAU DOOR LOCK

Safety Pattern

Size.	Width of Face Plate.	Per Pair
No. 80—3¾x2⅝ ins.	⅞ in	$5.75

Including two Nickeled Keys.

By the use of the key, operating on the triangular steel stud, a latch is thrown, which effectually prevents the turning back of the lock bolt by the door handle until released by the key. The stud may be left sufficiently short so that it can be reached only by its own key.

TONNEAU DOOR LOCK

Safety Pattern, with Lip Striker

Size.	Depth of Face Plate.	Per Pair.
No. 200—3⅝x2¼ ins.	⅞ in	$5.25

This lock, in addition to the regular self-acting spring bolt, is equipped with a safety latch which is thrown by an additional turn of the handle, and when so turned the door is securely locked and cannot possibly fly open.

SAFETY TONNEAU DOOR LOCK

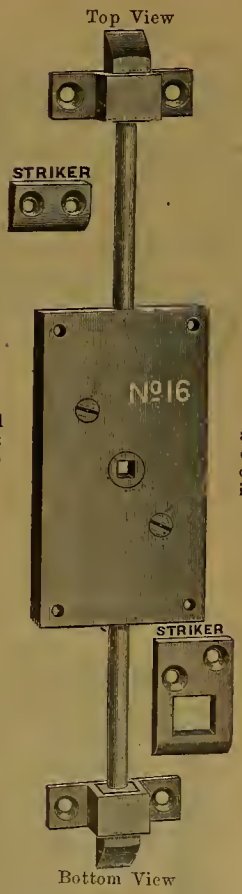
No. 999 Showing Lock with Door Closed — No. 999 Showing Lock With Door Open

Size.	Width Face Plate.	Per Pair
No. 999—4½x2½ inches.	⅞ inch	$7.50

The door cannot be opened until the handle is turned backward, throwing the Safety Latch back into the bolt and it cannot be thrown forward again until the door of the Tonneau is closed, bringing the lock in contact with its own Strikor Plate, whereby the holding mechanism is automatically released, and the Safety Latch or Clutch can be easily operated by the Door Handle. The Safety Latch cannot be operated when the door is open.

Illustrations Show Left-hand Locks.
All of Above One Pair per Box.

LOCKS, ETC.



Very strong and so constructed that it is impossible to get out of order.

To lock on top and bottom of door, to prevent door from springing or rattling.

DELIVERY WAGON LOCK

No. 16—Size Lock Case, 5x2 1/4x3/8 inches.....Each, $10.00
Full length of bottom rod from center of lock to end of bolt.....2 feet.
Full length of top rod from center of lock to end of bolt.....3 feet.
Full length over all.....5 feet.

Used on Undertakers' Wagons, Mail Vans, Ambulances and all kinds of General Delivery Wagons.

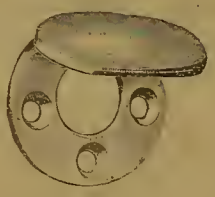


Illustration is full size.

CONCEALED KEY HOLE

No. 1—Silver Electro Plated, or Polished Brass..Each, $0.60
Furnished with Plated Screws for Attaching.

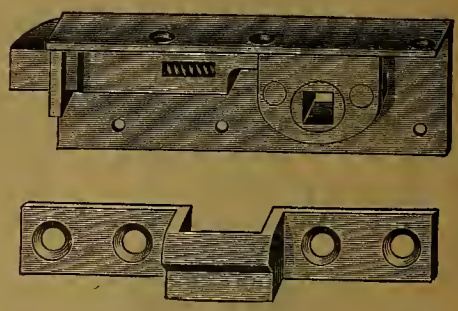
HEARSE DOOR SPRING

No. 74—Brass.....Per Pair, $8.00

(Length when closed, 13½ inches from A to A.)

These Door Springs consist of Seamless Brass Cylinders, with brass swivel ends. They are fastened on the bottom of the door and body, and are made with strong springs and will hold the doors firmly, when wide open or closed. Are highly recommended by all large hearse builders.

Used on Hearses, Undertakers' and General Delivery Wagons.



Illustrations are half of full size.

HEARSE DOOR LOCK

No. 12—5x1⅜ inches, with Strikers.....Each, $2.70

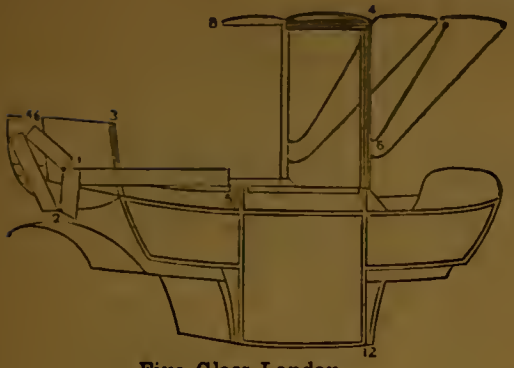
This Lock is made right-hand only; is very strong and so constructed that it is impossible for it to get out of order.

Illustration is half of full size.

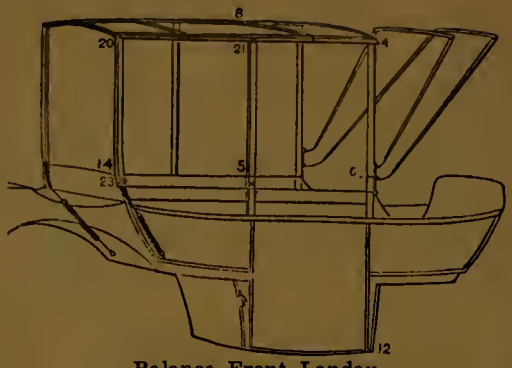
LEVER LOCK STRIKER

No. 0—Composition.....Per doz., $2.40

LANDAU FIXTURES



Five Glass Landau



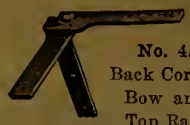
Balance Front Landau

Diagram showing Application of Landau Fixtures.

No. 1.
Top
Hinge
$4.50
per pair.

No. 2.
Top Hingo
$6.75
per pair.

No. 3.
Front Pillar
Hingo
Right and Left
$7.50 per pair.

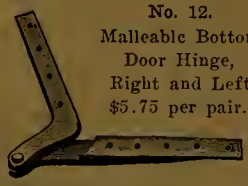


No. 4.
Back Corner
Bow and
Top Rail
Hinge,
Right and Left
$6.75 per pair

No. 5.
Right and
Left Lower.
Box Hinge
for rabbet pillar
$6.00 per pair.

No. 6.
Right
& Left
$8.25 per pair.
Back Pillar and Bow Hinge.

No. 8.
Top
Dowel,
$2.25
per pair
of four pieces.



No. 12.
Malleable Bottom
Door Hinge,
Right and Left.
$5.75 per pair.

N. 14
Glass Frame Fastener.
For Front Quarters.
$2.25 per pair.

No. 13
Front
Pillar
Dowel,
$1.00
per pair
of four pieces.

No. 20.
Front Quarter
Top Hinge,
Right & Left,
$4.25 per pair.

No. 21.
Middle Pillar
Top Hinge
and Lock,
Right and Left.
$8.75 per pair.

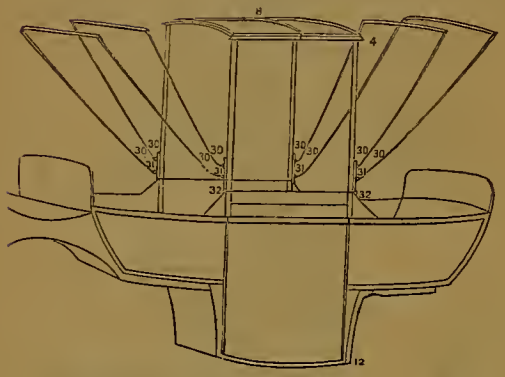
No. 23.
Lower
Front
Quarter
Hinge, with
Springs and
Rocker Bolt
complete,
Right and
Left,
$13.75 per pair.
For Jap'd
Springs
separate,
$3.25 per pair.

No. 46.
Front
Pilar Lock
$3.75
per pair.

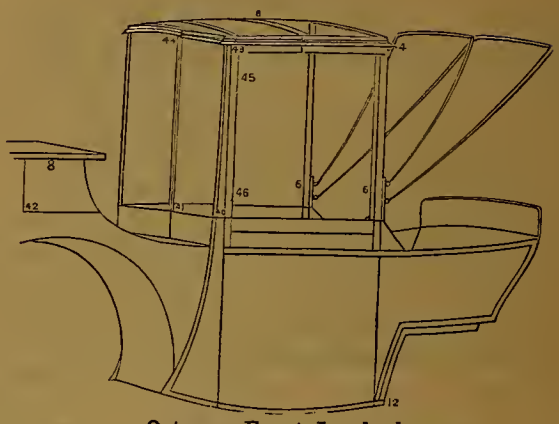
The figures on the diagrams at top of page refer to the proper positions when in use of correspondingly numbered articles.

All fixtures made of Composition Metal, except Nos. 4 and 6, which are Solid Forged Norway Iron, and No. 12, which is Malleable Iron.

LANDAU FIXTURES

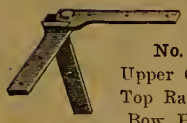


Curtain Landau



Octagon Front Landaulette

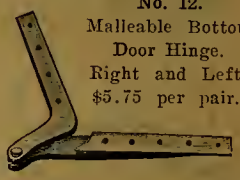
Diagrams showing Application of Landau Fixtures.



No. 4.
Upper Corner Top Rail and Bow Hinge, Right and Left.
$13.50 per set of four.

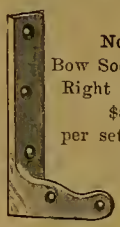
No. 6.
Back Pillar & Bow Hinge. Right & Left.
$8.25 per pair.

No. 8.
Top Dowel, $2.25 per pair of four pieces.



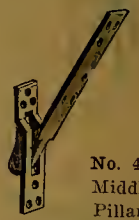
No. 12.
Malleable Bottom Door Hinge. Right and Left.
$5.75 per pair.

No. 30.
Bow Socket,
Silver Plated, $12.50
Polished Brass, 10.50
Brass to paint, 9.50
Per set of eight pieces.



No. 31.
Bow Socket Brace Right and Left.
$5.00
per set of four.

No. 32.
Back Pillar Hinge
$8.25 per set of four hinges.



No. 40
Middle Pillar, Lower Hinge.
$6.25 per pair.

No. 41.
Front Pillar Lower Hinge.
$3.75 per pair.

No. 42.
Dickey Seat Hinge.
$7.00
per set of four.

No. 43.
Middle Pillar Upper Hinge. Right and Left. Center of Pins 3¾ in. apart.
$6.50 per pair.

No. 44.
Front Pillar Upper Hinge, Right & Left.
$4.00 per pair.

The figures on diagrams at top of page refer to the proper positions when in use of the correspondingly numbered articles.

No. 45.
Middle Pillar Lock.
$3.00 per pair.

No. 46.
Front Pilar Lock.
$3.75
per pair.

All Fixtures made of Composition Metal, except Nos. 4 and 6, which are Solid Forged Norway Iron, and No. 12, which is made of Malleable Iron.

CLUB HANDLES

No. 1

Per Pair

No. 1—Brass, length, 2½ in.....$1.00
No. 2—Silvered, length 3 in..... 1.25

No. 10

Per Pair

No. 10—Brass, length, 2⅞ in....$2.25
No. 12—Silvered, length 4⅜ in.. 3.15

No. 128

Per Pair

No. 128—Silvered, length 3⅜ in.$1.90
No. 129—Silvered, length 4 in... 2.25

No. 3

Per Pair

No. 3—Brass, length, 3 in.....$1.25
No. 4—Silvered, length 3½ in... 1.50

No. 203

Per Pair

No. 203—Silvered, length 4 in...$3.00

No. 8

Per Pair

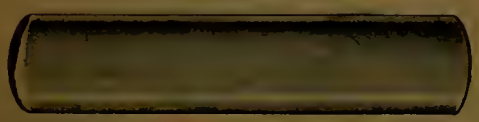
No. 8—Silvered, length 3⅞ in...$2.50

No. 36

No. 36—Brass, length, 3 inches.....Per Pair, $1.45

No. 51

No. 51—Brass, length, 3½ inches.....Per Pair, $1.90



No. 850

No. 850—Silver Electro Plated, length 4 ins..Per pair, $4.20
No. 850—Close Silver Plated, length, 4 ins.... " 5.65

No. 820

No. 820—Silver Electro Pltd., lgth. 4⅛ ins...Per pair, $4.50

All of above Handles fitted with either Plate or Screw Washers.

DROP HANDLES

No. 629

Per Pair

No. 629—Silver Electro Plated, length 3½ inches.....$3.75

No. 810

Per Pair

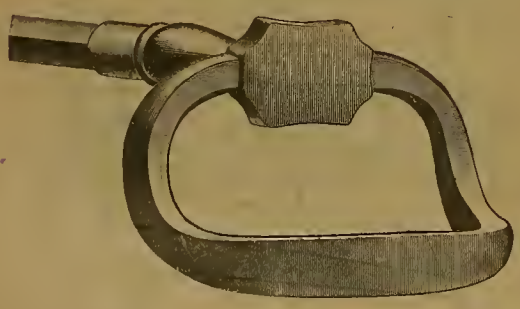
No. 810M—Fancy, Silver Electro Plated, lgth. 3½ in..$6.20
No. 840M—Plain, Silver Electro Plated, lgth. 3½ in.. 5.00
No. 840L—Plain, Silver Electro Plated, lgth. 4 in.... 5.20

No. 9

No. 9—Polished Brass, length 3½ in.....Per Pair, $3.75

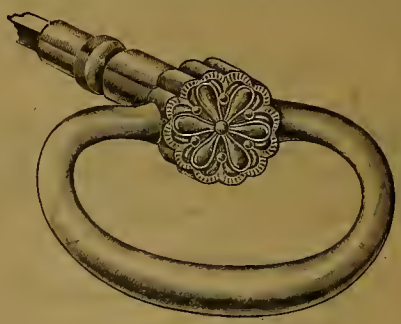
No. 802

No. 802L—Silver Electro Plated, length 4 in..Per pair, $6.50



No. 223

No. 223—Silver Electro Plated, length 4 in...Per pair, $4.40



No. 737

No. 737—Silver Electro Plated, length 4 in..Per pair, $6.50

INSIDE AND LEVER LOCK HANDLES

No. 38

No. 228

Nos. 62 and 62 1/2

INSIDE HANDLES

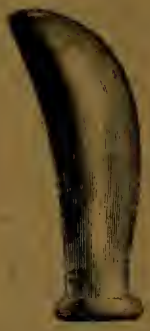
Per Pair.

No. 38—Cast Brass, Polished, length 3¾ inches.....$1.90
No. 228—Celluloid, Black, silver shank, length 4 inches. 4.80
No. 228—Celluloid, Ivory, silver shank, length 4 inches. 4.80

Per Pair.

No. 62 —Silver Plated Shank, for covering.....$1.80
No. 62½—Full Silver Plated..... 1.90

No. 625



No. 832

No. 428

LEVER LOCK HANDLES

Per Pair.

No. 625—Celluloid, Black, Silvered Ferrule, lgth. 1¾ in.$1.90
No. 625—Celluloid, Ivory, Silvered Ferrule, lgth. 1¾ in. 1.90

Per Pair.

No. 832—Silver or Brass Plated, length 2 inches.....$1.90
No. 428—Morocco Covered, length 2 inches..... 1.40
Green, Blue, Drab or Maroon.

No. 580

No. 574

PULL-TO HANDLES

No. 580—Flexible, Morocco Covered, length 6¾ inches.....Per pair, $1.65
Green, Blue, Drab or Maroon.

No. 574—Composition, Morocco Covered, width inside, 2¾ inches.....Per Pair, $1.65
Green, Blue, Drab or Maroon.

MISCELLANEOUS VEHICLE HANDLES

No. 1020

No. 1015

TONNEAU SIDE HANDLES

Per Pair

No. 1020—Polished Brass, opening in the clear, 3¼ in..$2.80

Per Pair

No. 1015—Polished Brass, opening in the clear, 3 in....$2.00

No. 89

No. 583

FOOT-BOARD HANDLES

Per Pair

No. 89 —Silver Electro Plated, width 7½ ins.....$6.20
No. 583—Silver Electro Plated, width 6 ins..... 5.00

No. 899

No. 899 1/2

WAGON HANDLES

Per Pair

No. 899 —Nickel Plated, length 7 inches.....$1.40
No. 899½—Nickel Plated, length 7½ inches..... 1.40

No. 1

No. 2

HANDLE WASHERS

No. 1—Silver or Brass Plated.....Per pair, $0.45
No. 2—Silver or Brass Plated..... " .45

No. 35 Nut

No. 35 Washer

INSIDE HANDLE NUT AND WASHER

No. 35—Nuts and Washers, Silver or Brass Pltd..Per pr., $0.25
A Pair Consists of Two of Each.

FASTENERS AND LOOPS

Illustration is Half of Full Size.

LANDAU TOP FASTENER

No. 1—Full Silver Electro Plated.....Per pair, $4.10
No. 4—Full Silver Plated Lever, Japd. base.. " 2.50
May also be used for Automobile Tonneau Fastener.

Illustration is Half of Full Size.

TAIL BOARD FOOT CHAIN

Foot Chain, Steel.....Per Foot, $0.22
For holding up the tail-boards of Dog Carts, etc.; as a Foot Support.

100 Feet per Box.

No. 1

No. 2

No. 4

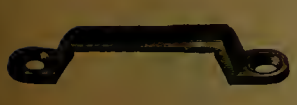
No. 5

Illustrations are Half of Full Size.

TAIL BOARD FASTENERS

No. 1—Silver Electro Plated.....Per set, $1.90
No. 2—Silver Electro Plated..... " 1.90
A set consists of two body pieces, two tail-board pieces and two pins.

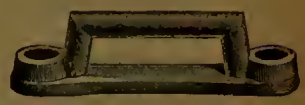
No. 4—Silver Electro Plated.....Per set, $3.50
No. 5—Silver Electro Plated..... " 2.35
A set consists of two body pieces and two tail-board pieces. No. 4 has cam motioned levers, which fasten the parts closely and prevent all rattling.



Nos. 1, 1¼, 1½

Nos. 3 or 30

No. 25
Cushion Strap Loop



No. 2
Kicking Strap Loop

FOOTMAN LOOPS

		Japanned.	Brass.
No. 1	—For 1 -inch Strap.....Per doz.,	$0.25	$1.60
No. 1¼	—For 1¼-inch Strap..... "	.30	1.75
No. 1½	—For 1½-inch Strap..... "	.35	3.00
No. 3	—For 1½-inch Strap..... "	.60	4.40
No. 30	—For 1¾-inch Strap..... "	Silvered,	$6.00

CUSHION STRAP LOOPS

No. 25—For ⅞-inch Strap, Japanned.....Per doz., $0.40

KICKING STRAP LOOPS*

No. 2—For 1½-inch Strap, Brass.....Per doz. pair, $16.00
No. 2—For 1½-inch Strap, Silvered... " " 16.00
*With plates.

AUTO TOP STAY SNAP

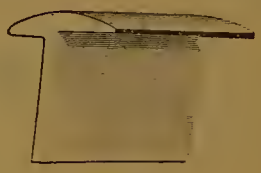
No. 429E—1-inch Strap, Polished Brass.....Per doz., $4.00

AUTO SNAP LOOP

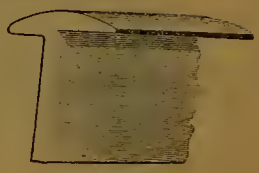
No. 4821—Polished Brass.....Per doz., $4.00
Size Eye, ⅝-inch, length over all, 2¼ inches.

CARRIAGE AND AUTO MOLDING

No. 3



No. 12



No. 13

DOOR MOLDING

No. 3—Soft Steel, ⅛-in. wide, 13 ft. lengths..Per ft., $0.14
No. 12—Soft Steel, ⅝-in. wide, 13 ft. lengths.. " .20
No. 13—Soft Steel, ¾-in. wide, 13 ft. lengths..Per ft., $0.22

Locker

Foot-Board

AUTO MOLDING

No. 0—Solid Brass, top edge polished bright..Per foot, $0.60
⅛-inch wide. In 13 foot lengths.

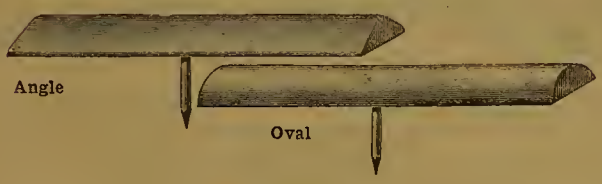
No. XX—Polished Brass.....Per foot, $0.60
Size ¾x¾-inch, .06 inch thick, 12-foot lengths.

Imitation Stitch Molding

Brass, to paint, in 8 ft. or 12 ft. lengths.....Per foot, $0.20

Glass Frame Molding, Silver Plated

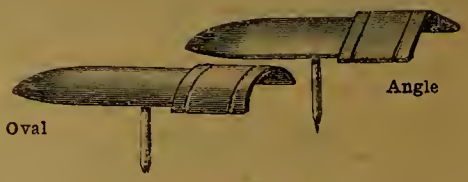
28 inch lengths, ½, ⅝ or ⅝-inch wide.....Per Pair, $2.25
Polished, drilled and countersunk, with screws complete.



Body Molding

Width, inches	⅜	7/16	½	⅝
Brass or Silvered, Oval. Per ft.,	$0.22½	$0.25	$0.27	$0.33
Brass or Silvered, Angle "	.22½	.25	.27	...

In 10 foot lengths.



Molding Finishers

Width, inches	⅜	7/16	½	⅝
Brass or Silvered, Oval..Per doz.,	$3.60	$3.60	$3.60	$4.50
Brass or Silvered, Angle "	3.60	3.60	3.60	....

Rattan Molding, Half Round

Rattan Molding, inches	⅜	½	⅝	¾
Per 100 feet	$2.00	$2.50	$3.50	$5.00

Rattan Saddle Reeds, 5-32 or 6-32 in. diameter, 8-ft. lengths.....Per gross, $4.50

Rubber Mat Molding

No. 00—3-32-in. opening, polished brass.....Per foot, $0.25
No. 000—⅛-in. opening, polished brass..... " .25
In 12 foot lengths.

CARRIAGE AND LIMOUSINE ACCESSORIES

TOILET CASES

VENDOME

Vendome, 11⅛-in. long, 4¾-in. wide, 2⅞-in. deep. Each $25.00

Compact in arrangement. Designed for Limousines, Broughams, etc., where a thin narrow case is desired.

Contains best nickel-case watch, sterling silver top perfume bottles, celluloid writing tablet, memorandum pad and pencil with silver tip, card case, pin cushions and Morocco covered mirror.

Colors: Green, Blue, Drab or Maroon.

DEL MONTE

Del Monte, 10¾-in. long, 5¼-in. wide, 3¼-in. dp. Each, $24.00

A fine Brougham Case, elegant design. Fitted with best grade nickel-case watch, memorandum pad and silver-tipped pencil, card-case, pin-cushion, and Morocco covered mirror.

Colors: Green, Blue, Drab or Maroon.

ST. FRANCIS

St. Francis, 9½-in. long, 4-in. wide, 3¼-in. deep. Each, $14.00

A small, compact Brougham or Rockaway Case. Equipped with nickel-case watch, cut glass perfume bottle, memorandum pad and pencil with silver tip, card case and Morocco covered mirror.

Colors: Green, Blue, Drab or Maroon.

ST. JAMES

St. James, 7⅜-in. long, 4⅛-in. wide, 2¾-in. deep. Each, $9.00

Designed for Depot Wagons and Rockaways. Equipped with nickel-case watch, cut glass perfume bottles and silver mounted mirror with ebony handle.

Colors: Green, Blue, Drab or Maroon.

CARRIAGE AND LIMOUSINE ACCESSORIES

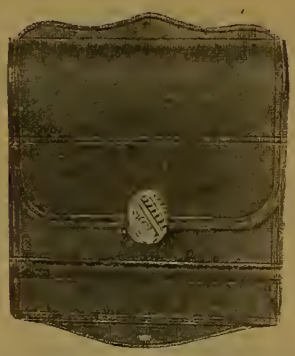
No. 0

No. 200

CARD CASES

No. 0—4¼x2⅞ inches, full Morocco covered.....Each, $1.50
Used in sets with No. 01½ Ash Tray.
Green, Blue, Drab or Maroon.

No. 200—3⅝x4 5/16 inches, full Morocco covered..Each, $3.00
With silver-tipped pencil and combined celluloid writing tablet and card receiver.
Green, Blue, Drab or Maroon.



No. 60—FOLDING CARD CASE

No. 60—5⅜x4½ inches, Morocco covered.....Each, $3.00
(Oxidized Silver Clasp.)
Green, Blue, Drab or Maroon.

No. 01½—ASH TRAY

No. 01½—4⅛x3 in., Morocco covd. silv. receiver. Each, $2.25
Used in sets with No. 0 Card Case.
Green, Blue, Drab or Maroon.

No. 29

HAND MIRRORS

No. 919

No. 29—5x4 inches, Morocco covered back.....Each, $1.50
No. 30—5½x4½ inches, Morocco covered back.. " 1.90
Silver Mounted, Beveled Edge Glass and Ebony Handle
Green, Blue, Drab or Maroon.

No. 919—4¾x5¾ inches, Celluloid, black .....Each, $4.00
No. 919—4¾x5¾ inches, Celluloid, ivory ..... " 4.00

CARRIAGE AND LIMOUSINE ACCESSORIES

No. 1

No. 3

CARRIAGE HEATERS

(Foot Warmers)

No. 1—14-in. long, Velvet Carpet covered, nickel plated ends ..... Each, $4.50

No. 3—14-in. long, Brussels Carpet covered, white metal ends ..... Each, $3.50

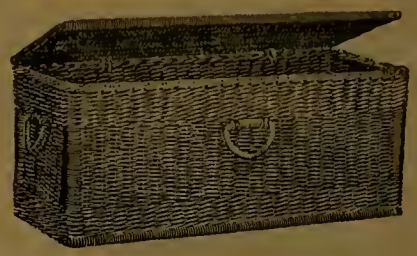
These Heaters are strong and durable, and are Asbestos lined.

Extra Carbons for Heaters, size, 7½x2½x1¼ inches..... Per doz., $1.25

WICKER WHEEL GUARD

No. 6—Wheel Guards, length 32 inches..... Each, $2.00

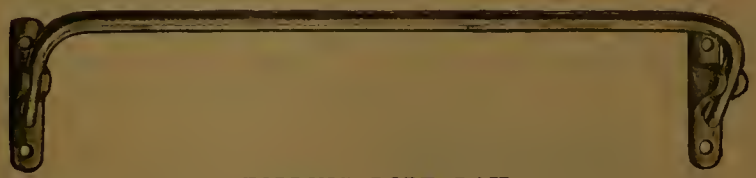
For placing over wheel to prevent soiling of clothing when getting in and out of vehicle, on vehicles not provided with fenders.



LUNCH BASKET

No. 5—32-in. long, 16-in. wide, 12-in. high..... Each, $15.00

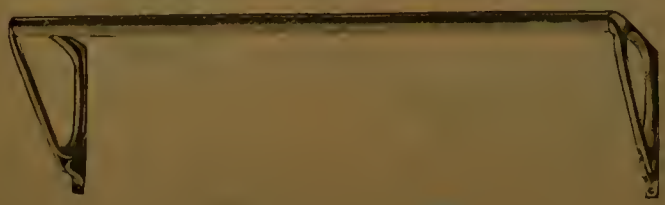
Also made to order, any dimension.



FOLDING ROBE RAIL

No. 4—Length between Posts, 34 inches, Posts 3 inches high, ⅝-inch wide, ⅞ solid rod, nickeled..... Each, $5.50

No. 4—Length between Posts, 34 inches, Posts 3 inches high, ⅝-inch wide, ⅞ solid rod, polished brass..... " 5.00



FOLDING FOOT REST

No. 2—Length between Brackets 33 inches, nickeled ..... Each, $12.75

No. 2—Length between Brackets 33 inches, polished brass ..... " 11.00

Extreme height of Brackets, 4⅜ inches; length of bracket base, 5⅛ inches; diameter of Solid Brass Tubing, 1 inch.

CARRIAGE AND LIMOUSINE ACCESSORIES

COMBINATION SPEAKING TUBE AND WHISTLE

No. 0—Complete with 9 feet of Silk Covered Tubing, (Green, Blue, Drab or Maroon).....Each, $10.00
With Ebonized Mouth and Ear Pieces, Silk Tassel and Ruffs, two Black Cord Runners and two Screw Panel Washers.

Netted Silk Bulb with Reed

LIMOUSINE MEGAPHONE SPEAKING TUBE

No. 1—With 9 feet of Silk Covered Tubing, (Green, Blue, Drab or Maroon).....Each, 20.00
With Ebonized inside end, Silk Netted Bulb, Cord Runners and Collars for Pillars.

Illustration about one-half size

Parasol Holder

No. 1—Parasol Holder, Silver Pl. or Pol. Brass..Each, $1.00
No. 4—Umbrella Holder, Silver Pl. or Pol. Brass " 3.00
Including Screws.

Illustration is exact size

Hinged Umbrella Holder

Illustration is exact size

Umbrella Drainer

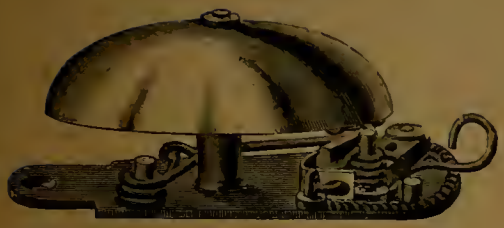
Umbrella Drainers, Silver Pl. or Pol. Brass...Per doz., $4.50

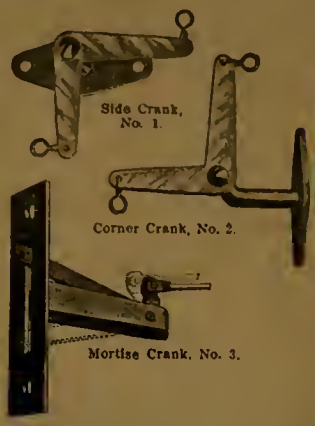
Illustration is exact size

Water Tube (Floor Drainer)

Water Tubes, with Screw Thread, Brass..... " 1.50

BELLS AND GONGS





GONG BELL

No. 100—Bronzed Steel, 4 inches diameter.....Each, $0.75
No. 100—Bell Metal Steel, 4 inches diameter.... " 1.50
Especially adapted to carriage use.

PUSH BUTTON BELL

No. 82—Nickel Plated, 4 inches diameter.....Each, $2.50
Furnished with two each side and corner cranks, and one mortise crank, and necessary brass wire.

Regulation Single Stroke Gong

Multiple Stroke Gong

FIRE DEPARTMENT GONGS

No. 12R—12 inches diameter.....Each, $13.25
No. 14R—14 inches diameter..... " 15.50
This is the finest and most durable single stroke gong on the market. The gong shell is made of high carbon steel, heavily nickeled, and gives a louder and clearer ring than any composition or bell metal gong.

No. 12M—12 inches diameter.....Each, $25.50
No. 14M—14 inches diameter..... " 27.50
This gong is without a rival for Fire Department use. Each pressure of the foot strikes three blows in rapid succession, and when the foot is moved quickly the result is a continuous volley of blows, each one clear, distinct and penetrating, unlike anything ever before heard on the streets.

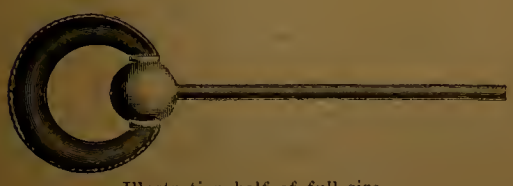


Illustration half of full size.

NO. 8 BELL PULL

No. 8—Morocco, silver trimmed.....Each, $2.00
Green, Blue, Drab or Maroon.

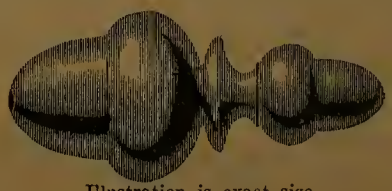


Illustration is exact size.

NO. 200 BELL PULL

No. 200—Ebony.....Each, $0.60

PROFIT

The success of any business depends primarily upon the ability of its managers to market its products profitably. The products or processes of the business of a Wagonmaker, Blacksmith, Trimmer or other mechanic require marketing just as do the goods of a merchant, and, whether it is merchandise or processes to be marketed, a full familiarity of the seller with that which he is selling is absolutely necessary.

Successful sale also depends upon ability to figure a fair margin of profit, taking into consideration not only stock used and labor performed, but also general operating expense (rent, insurance, etc.).

The Mechanic may be confronted with a condition in his locality which temporarily does not permit him to make the proper charge for work performed, due to the fact that his competitor or competitors do not know how to profitably sell their products.

In such cases it is unquestionably advisable to permit the "other fellow" to compete with himself, and time and experience will teach him to figure the cost of his products.

A business will never be unsoccessful if its charges carry a reasonable profit, regardless of the fact that the "other fellow" may attempt to give his customer more than a dollar's worth for a dollar.

BODY ACCESSORIES

DASHES AND

DASH ACCESSORIES

FENDERS AND BUGGY BOOTS

LAMPS AND ACCESSORIES

GENERAL INFORMATION

Subdivision of "Body Accessories"

ADJUSTABLE and SOLID FOOT DASHES differ in that the latter is provided with solid wrought feet welded to and a part of the dash frame, whereas the former is furnished without feet, and is attached to the body by means of adjustable feet which are connected to the dash frame with FLAT HEAD DASH BOLTS which pass through slots in the lower bar of the dash frame, (leaving head of bolt exposed in front of Dash); or, with CONCEALED HEAD DASH BOLTS which are inserted from back of dash, the bolt head being so turned as to lock in the slot of lower channel bar, no opening being made in the front dash covering.

SOLID DASH FEET are used in making dash frames up by hand.

DASH MOLDING serves as a protection to the edges of Dashes not provided with dash rails.

POCKET FLAP FASTENERS are used on Vehicle Pocket Flaps.

APRON HOOKS are used for the purpose of supporting storm aprons in position.

DASH RAILS are used to give a finish to, and protect the edges of dashes, adjustability as to length being obtained by cutting the two pieces, in which rails are usually furnished, at the point of abuttment at the center post or at the end support, as the case may be.

FENDERS serve as mud and dust guards, and are attached over the wheels of various styles of vehicles, such as phaetons, surreys, etc., being attached by means of concealed or flat head dash or fender bolts and specially devised fender irons.

SEAT FENDERS are usually used on Bike Wagons and other like vehicles, being frequently attached by means of malleable SEAT FENDER IRONS.

BUGGY BOOTS serve as covers for the rear open end of buggy bodies, being covered with rubber or enameled duck, etc., and are hinged to the bottom of seat at rear, thus allowing convenient raising without detaching, and being held in place by BOOT RUBBERS or SPRINGS fastened to inside of body and buggy-boot.

TOE CARPET FASTENERS serve to maintain the Toe Carpet in position against the inside of the front panel of body.

TOE PADS or PANEL GUARDS are so devised as to slip over and protect the buggy panel at point of entrance.

WHIPSOCKETS may be obtained in METAL, WOOD or LEATHER COVERED varieties, selection being a matter of grade or taste. Best grades are rubber or leather lined and provided with rubber holder in top. The commonest point of application of whipsockets is to the dash, but Road Cart Sockets are fastened to the shaft or crossbar and Coach Sockets to the seat, frequently being provided with projecting arms for this purpose.

Whipsockets are usually attached to dash by means of WHIPSOCKET FASTENERS, though certain sockets may be attached directly to wood dashes, or to the side of the vehicle.

REIN HOLDERS are attached to dash, but as an alternative, REIN HOOKS attached to top or seat are frequently used.

Small CARRIAGE LAMPS are suitable for light vehicles and large lamps for heavier vehicles, such as Coaches, Landaus, Surreys, etc.

The use of Special STAGE LAMPS, with removable and reversible top for protection of glass, etc., is advisable not only on stages, but on hotel buses, night delivery wagons, etc.

DRIVING LAMPS are used on the dashes of light vehicles and are cheap, convenient and quickly removable.

The majority of lamps are oil burners, but on some forms the burner is removable for the purpose of substituting a COACH CANDLE or ANTI-CANDLE.

Where Lamps are attached at or near the seat of the vehicle, LAMP FINGER IRONS are usually used.

DASHES

Adjustable Foot

No. 103—STRAIGHT (Leather Edge)

Adjustable Foot

No. 163—STRAIGHT (Nickeled Molding)

11 Inches High, Straight

Length, inches	22	23	24	25	26	27	28	29	30	31	32	33	34	36	38	40	42
Leath. Edge, each,	$1.52	$1.56	$1.59	$1.65	$1.70	$1.73	$1.77	$1.83	$1.88	$1.92	$1.95	$1.98	$2.03	$2.12	$2.21	$2.30	$2.37
Nick. Mold., each,	1.74	1.79	1.83	1.90	1.96	2.00	2.05	2.12	2.18	2.23	2.27	2.31	2.37	2.48	2.59	2.70	2.79

13 Inches High, Straight

Length, inches	22	23	24	25	26	27	28	29	30	31
Leather Edge, Each,	$1.68	$1.72	$1.76	$1.83	$1.88	$1.93	$1.97	$2.03	$2.08	$2.13
Nickeled Molding "	1.90	1.95	2.00	2.08	2.14	2.20	2.25	2.32	2.38	2.44

Length, inches	32	33	34	35	36	37	38	39	40	42
Leather Edge, Each,	$2.17	$2.21	$2.26	$2.31	$2.37	$2.42	$2.47	$2.52	$2.57	$2.67
Nickeled Molding "	2.49	2.54	2.60	2.66	2.73	2.79	2.85	2.91	2.97	3.09

15 Inches High, Straight or Curved

Length, inches	22	23	24	25	26	27	28	29	30	31
Leather Edge, Each,	$1.83	$1.88	$1.94	$2.01	$2.06	$2.12	$2.16	$2.21	$2.27	$2.33
Nickeled Molding "	2.05	2.11	2.18	2.26	2.32	2.39	2.44	2.50	2.57	2.64

Length, inches	32	33	34	35	36	37	38	39	40	42
Leather Edge, Each,	$2.37	$2.43	$2.49	$2.55	$2.61	$2.67	$2.72	$2.78	$2.84	$2.97
Nickeled Molding "	2.69	2.76	2.83	2.90	2.97	3.04	3.10	3.17	3.24	3.39

Adjustable Foot

No. 111—CURVED

17 Inches High

Length, inches	24	25	26	27	28
Leather Edge, Each,	$2.57	$2.65	$2.70	$2.78	$2.84
Length, inches	29	30	32	34	36
Leather Edge, Each,	$2.90	$2.96	$3.09	$3.24	$3.39

Adjustable Foot

No. 113—CURVED

16 Inches High

Length, inches	24	25	26	27
Leather Edge, Each,	$2.62	$2.69	$2.74	$2.81
Length, inches	28	29	30	32
Leather Edge, Each,	$2.87	$2.92	$2.99	$3.11

NOTE—All of above Dashes furnished with bolts, but without feet.. For styles and prices of feet, see Section 49. Extreme width of Nos. 111 and 113 Dashes is 1½ inches more than width of body.

DASHES

Solid Foot—Padded

NO. 100 SOLID FOOT, PIANO BOX BODY

13 Inches High

Length, inches	24	25	26
Soft Dash.....Each,	$2.42	$2.54	$2.60

15 Inches High

Length, inches	26	27	28
Soft Dash.....Each,	$2.85	$2.93	$2.99
Grain Front..... "	4.23	4.34	4.43

Net extra for padded Dashes....Each, $0.25

Adjustable Foot

NO. 308 PHAETON OR SURREY.

22 Inches High

Length, inches.....	28	29	30	31	32
Soft Dash....Each,	$ 7.77	$ 7.94	$ 8.10	$ 8.27	$ 8.44
Grain Front. "	10.45	10.67	10.90	11.12	11.34

24 Inches High

Length, inches.....	28	29	30	31	32
Soft Dash....Each,	$ 8.27	$ 8.44	$ 8.60	$ 8.77	$ 8.94
Grain Front. "	11.20	11.42	11.65	11.87	12.09

Extreme measurement at top 12 inches, and, at bottom 7 inches more than width of body.

Adjustable Foot

NO. 304 PHAETON OR SURREY

20 Inches High

Length, inches	28	29	30	31	32
Soft Dash.....Each,	$6.44	$6.60	$6.77	$6.94	$7.10
Grain Front..... "	8.58	8.80	9.03	9.25	9.47

22 Inches High

Length, inches	28	29	30	31	32
Soft Dash.....Each,	$6.94	$7.10	$7.27	$7.44	$7.60
Grain Front..... "	9.33	9.55	9.78	10.00	10.22

Extreme measurement at top, 8 inches, and at bottom, 5½ inches more than width of body.

Adjustable Foot

NO. 318 PHAETON OR SURREY

22 Inches High

Length, inches.....	28	29	30	31	32
Soft Dash....Each,	$ 8.10	$ 8.27	$ 8.44	$ 8.60	$ 8.77
Grain Front. "	10.90	11.12	11.34	11.56	11.78

24 Inches High

Length, inches.....	28	29	30	31	32
Soft Dash....Each,	$ 8.60	$ 8.77	$ 8.94	$ 9.10	$ 9.27
Grain Front. "	11.65	11.87	12.09	12.31	12.53

Extreme measurement at top 13 inches, and, at bottom, 7 inches more than width of body.

Nos. 304, 308, and 318, furnished from factory only. Above lists are for Adjustable Foot Dashes without Lamp Holes, Lamps, Rail, Flap or any extra. For list of extras see following page.

DASHES

No. 153—Adjustable Foot

Furnished with Plated Rail if desired.

No. 255—Adjustable Foot

Length over all 2½ inches more than width of body.

No. 125—Adjustable Foot

Length over all 3 inches more than width of body.

No. 119—Solid Foot

Furnished without Rail if desired.

Heights—No. 153: 11, 12, 13, 15, 17 and 18 inches; Nos. 119, 125, and 255: 16, 17, and 18 inches. Covered with No. 1 Soft Dash, Grain Front or Full Grain Dash Leather. Adjustable or Solid Feet.

Above Dashes furnished promptly from factory. Prices quoted upon request.

MEASUREMENT INSTRUCTIONS

Measurements necessary when ordering Solid Foot Dashes:

For Piano Box Body

Width of body where dash attaches.
Thickness of post and panel.
Distance from center to center of feet.

For Corning or Concord Body

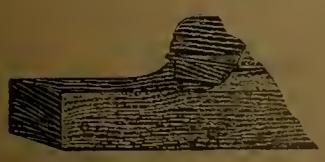
Width of body where dash attaches.
Send drawing showing bevel of body and give thickness of post and panel.
Distance from center to center of feet.

For Bracket Front Body

Width of body where dash attaches.
Send drawing showing bevel of body.
Distance from center to center of feet.

LIST OF EXTRAS

Lamp Holes and attachments	$1.00	**No. 38**—Plated Rein Rail, shown on Dash No. 308	1.60
No. 15—Plated Rein Rail, shown on Dash No. 125	.80	**Soft Dash Pocket** (Approximately),	2.00
No. 19—Plated Rein Rail, shown on Dash No. 119	.80	**Grain Dash Pocket** "	3.50
No. 34—Plated Rein Rail, shown on Dash No. 304	.90	**Solid Wrought Feet**	1.50



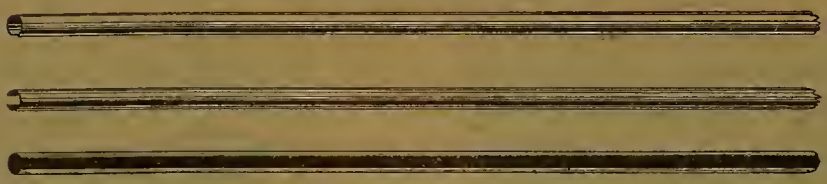
Piano Box

Corning or Concord

Bracket Front

Above illustrations show front sections of bodies referred to in "Measurement Instructions" above.

DASH ACCESSORIES



DASH MOLDING

30-inch Strips, Plain Nickeled.....Per strip, $0.60
36-inch Strips, Plain Nickeled..... " .72
42-inch Strips, Plain Nickeled..... " .84

No. 5

No. 7

No. 70

SEWARD'S SOLID WROUGHT DASH FEET

No. 5—Oval, 1⅛-inch offset.....Per doz. pair, $9.75
For Piano Bodies.

No. 7—Oval, 1⅛-inch offset.....Per doz. pair., $9.75
For Phaeton Bodies.

No. 70 shows how the No. 7 Foot can be bent (as per dotted lines) for Piano Body or shaped for Corning Body.

No. 110

No. 118

No. 115B

No. 40C

ADJUSTABLE DASH FEET

No. 110—Forged Steel, 1⅛-inch offset....Per doz. pair, $2.40
For Piano Bodies.

No. 118—Forged Steel.....Per doz. pair, $2.40
For Bracket Front Bodies.

No. 115B—Forged Steel, 1⅛-inch offset..Per doz. pair, $2.40
For Corning Bodies.

No. 40C—Malleable Iron, 1⅛-inch offset..Per doz. pair, $2.40
For Piano Bodies.

Concealed Head Dash or Fender Bolt

⅜x1½-inch Dash Bolts.....Per 100, $5.00
⅜x1½-inch Dash Bolts ..... " 5.00
⅜x2¼-inch Dash Bolts ..... " 5.00

Flat Head Dash Bolt

DASH ACCESSORIES

POCKET FLAP FASTENERS AND APRON HOOKS

DASH POCKET FASTENER

Pray's Improved Pattern

Nickeled or Polished Brass, Per doz., $2.00
Japanned ..... " 1.70
One Dozen per Box.

DASH POCKET FASTENER

Littlejohn's Pattern

Nickeled ..... Per doz., $0.90
Japanned ..... " .70
This Fastener is constructed on the cam principle and takes up the slack of the strap.
One Dozen per Box.

DASH POCKET FASTENER

Thomas and Parker Pattern

Silver Pltd. or Pol. Brass. Per doz., $1.50
One Dozen per Box.

APRON HOOK

Santa Cruz Pattern

Nickel Plated on Brass, Per doz. pair, $4.50
One Dozen Pair per Box.

APRON HOOK

San Mateo Pattern

Nickel Plated on Brass. . Per doz. pair, $6.00
One Dozen Pair per Box.

BOOT HOOK

San Juan Pattern

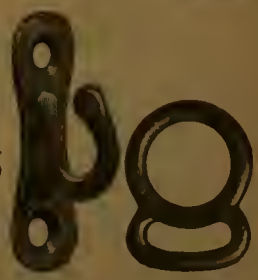
In Pairs, Right and Left.
Nickel Plated on Brass. . Per doz. pair, $5.00
One Dozen Pair per Box.

APRON HOOKS AND RINGS

Per Gross.
No. 1—Malleable, Japanned.....$2.00
One Gross per Box.

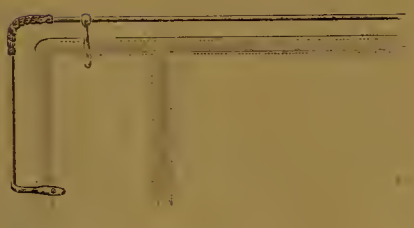
Per Gross.
No. 3—Malleable, Japanned.....$7.50
One Gross per Box.

All of above illustrations are exact size.



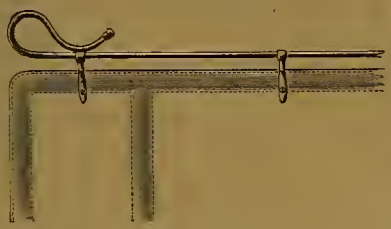
ADJUSTABLE DASH RAILS

FOR STRAIGHT DASHES

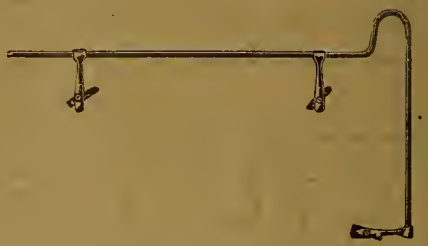


No. 1683½—Nickeled, ¼-inch, Rope Corners.....Each, $1.15

No. 1691½—Nick., ¼-in., Im. Rope Bottom Rail..Each, $1.35



No. 1446—Nickeled, ¼-inch, plain.....Each, $0.70



No. 1570—Nickeled, ¼-inch, plain.....Each, $1.00

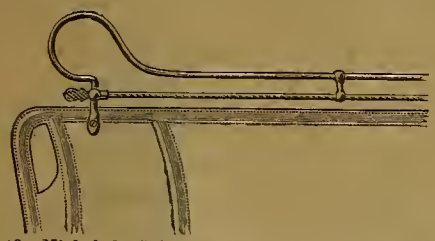
No. 1310—Nickeled, ¼-inch, Rope Top Rail.....Each, $1.65

No. 1590—Nickeled, ¼-inch, plain.....Each, $0.70

FOR CURVED DASHES

No. 1595—Nickeled, $\frac{5}{16}$-inch, plain.....Each, $0.90

No. 1308—Nickeled, ¼-inch, Rope Bottom Rail..Each, $2.10



No. 1440—Nickeled, $\frac{5}{16}$-in., Im. Rope Bot. Rail..Each, $1.20

No. 1604—Nickeled $\frac{5}{16}$-inch, plain.....Each, $2.40

All of above Rails suitable for Dashes up to 42 inches long. Necessary Clips and Screws for attaching to Dashes furnished with all Rails. Imitation Rope has a spiral pattern cut on Solid Rail. "Rope" calls for brass tubing, nickeled, of rope design.

FENDERS

SURREY FENDERS

Front

Back

	Width at Bottom.	Width at Top.	Center to Center Length.	of Attaching Bars.	(...Per Pair...) Soft Dash.	Grain Top.	(...Per Set...) Soft Dash.	Grain Top.
No. 19 —Front.....	5½ inches	9 inches	26 inches	18 inches	$3.40	$5.10	$7.88	$11.82
No. 19½—Back.....	5½ inches	5½ inches	60 inches	50¼ inches	4.48	6.72		

Front

Back

	Width at Bottom.	Width at Top.	Center to Center Length.	of Attaching Bars.	(...Per Pair...) Soft Dash.	Grain Top.	(...Per Set...) Soft Dash.	Grain Top.
No. 18 —Front.....	6 inches	9 inches	31 inches	20¾ inches	$1.00	$6.00	$8.75	$13.13
No. 18½—Back.....	6 inches	7 inches	57 inches	48¼ inches	4.75	7.13		

All above furnished from factory only. Necessary Concealed Head Bolts supplied with Fenders. Front Fenders are rights and lefts, Back Fenders are interchangeable. The above are made with Channel Bar to bolt to step, unless ordered with lugs.

FENDERS

SEAT FENDER

No. 62—3x4½x19 inches, Soft Dash.....Per pair, $2.98
No. 62—3x4½x19 inches, Grain Top..... " 4.47

No. 35

No. 45

PHAETON FENDERS

No. 35—4½x5¼x7x42 inches, 2 crossbars; 23¼ inches center to center of attaching bars; 9 inches from upper end to center of slots in crossbar.
Soft Dash.....Per pair, $3.30
Grain Top..... " 4.95

No. 45—4½x5¼x7x46 inches, 3 crossbars; 26 inches center to center of attaching bars; 10 inches from upper end to center of slots in crossbar.
Soft Dash.....Per pair, $3.60
Grain Top..... " 5.40

Necessary Concealed Head Bolts supplied with Fenders.

SEAT FENDER IRON

Per Set (4)
No. 4780—2⅛x2⅛ inches, ⅝-inch wide, ¼-in Bolt.....$0.20

SEAT FENDER IRON

Per Set (4)
No. 4775—⅛x2⅞ ins., proj. 1½ ins., Bolt hole ⅜ in....$0.25

AUTOMOBILE FENDERS MADE TO ORDER

Paper Pattern showing exact dimensions must accompany order.

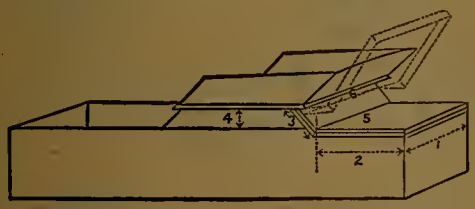
BUGGY BOOTS, TOE PADS, ETC.

IRON FRAME BUGGY BOOT

Enameled Duck	Each,	$2.25
Rubber Duck	"	2.75
Leather Cloth	"	3.50
Machine Buffed Leather	"	5.00

SOFT BUGGY BOOTS

Enameled Duck	Each,	$1.75
Rubber Duck	"	2.25
Leather Cloth	"	3.00
Machine Buffed Leather	"	4.50



MEASUREMENTS FOR BUGGY BOOTS

First: The width of back panel, as shown by Fig. 1, in cut of buggy body.

Second: The distance from back corner to seat riser, as shown by Fig. 2.

Third: The distance from top of panel to bottom of seat, as shown by Fig. 3.

Fourth: The height of seat riser, as shown by Fig. 4

Fifth: The width of body at base of seat riser, as shown by Fig. 5.

Sixth: The width of body at top of seat riser.

Seventh: The distance from top of crossbar, under seat, to outer edge of No. 1.

Nos. 3 and 4 No. 11½

TOE CARPET FASTENERS

	Per Gross.
No. 3—With Back Plates, Japanned	$1.75
No. 4—Without Back Plates, Japanned	1.25

2½ inches long, of Stiff Steel, ⅝-inch wide, long Prongs.

No. 11½—Jap. Base, Nic'ld Top, for screws..Per doz., $1.25

Nos. 3 and 4, one gross per box. No. 11, 1 doz. per box.

SAN FRANCISCO BUGGY BOOT

Enameled Duck Covered	Each,	$5.50
Rubber Duck Covered	"	6.50
Leather Cloth Covered	"	8.00
Machine Buffed Leather Covered	"	10.00

Illustration is about one-third of full size.

BOOT RUBBERS

Boot Rubbers, Complete, with attachments and screw eyes .....Per doz. pair, $2.00

Illustration is one-half of full size.

BOOT SPRINGS

Boot Springs, 5¾ inches long.....Per doz. pair, $1.75

TOE PADS OR PANEL GUARDS

	Per Doz. Pair.
No. 4—Glazed Drill, Canton Flannel Lined	$6.00
No. 5—Tan Back Drill, Muslin Lined	6.50
No. 6—Tan Back Drill, Canton Flannel Lined	7.50
No. 8—Patent Leather, Canton Flannel Lined	15.00

No. 4, 8½ in; balance 10 inches wide.

METAL WHIP SOCKETS

No. 8—Hubbards

No. 8—Black, length 6¾ in., leather dash..Per doz., $3.00

No. 10—Hubbards

No. 10—Black, length 6¾ in., wood dash.... " 2.50

No. 1—Buffalo Pattern

No. 1—Black, length 6½ in., leather dash...Per doz., $1.20

No. 2—Buffalo Pattern

No. 2—Black, length 7¼ in., wood dash..... " 1.10

No. 4—Buffalo Pattern

No. 4—Black, length 6½ in., Road Cart....Per doz., $0.90

No. 225—Buffalo Pattern

No. 225—Black, length 6½ in., leather dash.. " 1.20

No. 226—Buffalo Pattern

No. 226—Black, length 7 in., wood dash.....Per doz., $1.10

No. 221—Open Pattern

No. 221—Black, length 5¾ in., wood dash.... " .90

All of above One Dozen per Box.

METAL WHIP SOCKETS

No. 218
Road Cart

No. 220
Road Cart

No. 222
Leather Dash

No. 218—Black, length 5¾ inches, open pattern.....Per doz., $0.70
No. 220—Black, length 5¾ inches, open pattern..... " 1.00
No. 222—Black, length 5¾ inches, open pattern..... " 1.10

No. 60
* Leather Dash

No. 60½
† Leather Dash

No. 63
Wood Dash

No. 84
Seat

No. 60 —Black, lgth 6½ in., inside lever...Per doz., $1.90
No. 60½—Black, lgth 6½ ins., inside lever... " 2.00
*Riveted Band Fasteners.

No. 63—Black, lgth. 6½ ins., inside lever...Per doz., $1.90
No. 84—Black, lgth. 6½ ins., inside lever... " 3.00
†Four Screw Fasteners.

All of above One Dozen per Box.

METAL WHIP SOCKETS

No. 64

*** Leather Dash**

No. 64¼

Wood Dash

No. 64 —Black, length 6½ inches.....Per doz., $1.70
No. 64¼—Black, length 6½ inches..... " 1.70

No. 64½

† Leather Dash

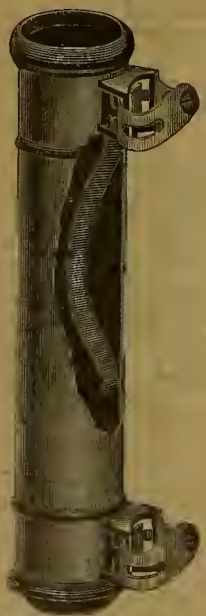
No. 71

Road Cart

No. 64½—Black, length 6½ inches.....Per doz., $1.80
No. 71 —Black, length 6½ inches..... " 1.70

No. 10

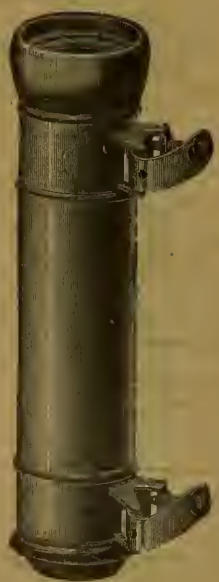
Wood Dash



No. 15

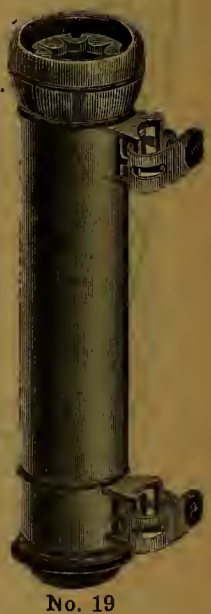
*** Leather Dash**

No. 10—Black, length 6½ ins., without spring.Per doz., $0.90
No. 15—Black, length 6½ ins., inside spring.. " 1.10
*Riveted Band Fasteners.



No. 18

*** Leather Dash**



No. 19

*** Leather Dash**

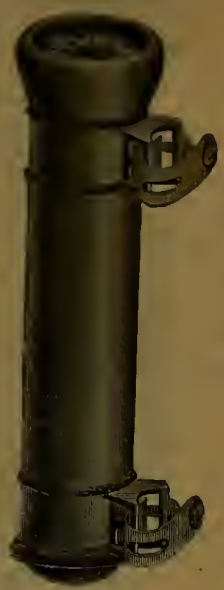
No. 18—Black, length 6½ ins., with rubbers..Per doz., $1.80
No. 19—Black, length 6½ ins., with rubbers.. " 2.50
†Four Screw Fasteners.

All of above One Dozen per Box.

METAL WHIP SOCKETS

No. 21

Leather Dash
Vise Fasteners

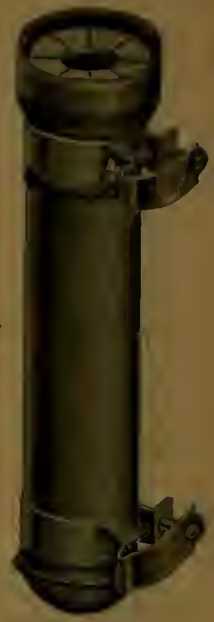


No. 22

Leather Dash
Riveted Band Fasteners

No. 22½

Wood Dash



No. 118

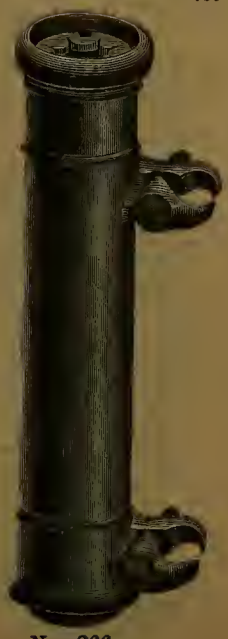
Leather Dash
Security Band Fasteners

No. 21—Black, length 6½ in*.....Per doz., $2.50
No. 22—Black, length 6½ in*..... " 2.50

No. 22½—Black, length 6½ in*.....Per doz., $2.30
No. 118 —Black, length 6½ in*..... " 2.20

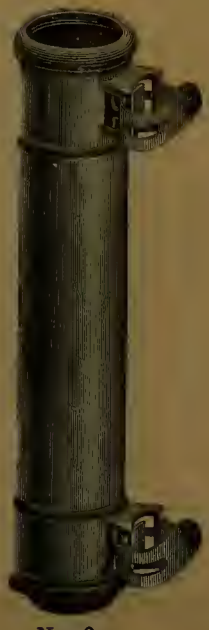
No. 112

Leather Dash
Security Band Fasteners



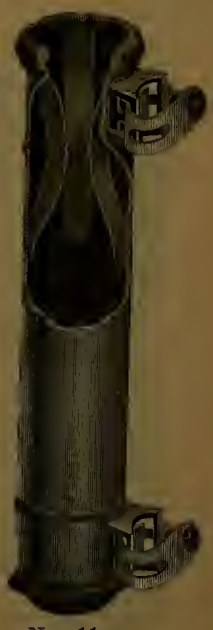
No. 266

Leather Dash
Vise Fasteners



No. 9

Leather Dash
Riveted Band Fasteners



No. 11

Leather Dash
Riveted Band Fasteners

No. 112—Black, length 6½ in*.....Per doz., $2.80
No. 266—Black, length 6¾ in*..... " 2.15

No. 9—Black, lgth, 6½ ins., without spring..Per doz., $0.90
No. 11—Black, lgth., 6¾ ins., three springs... " 1.90

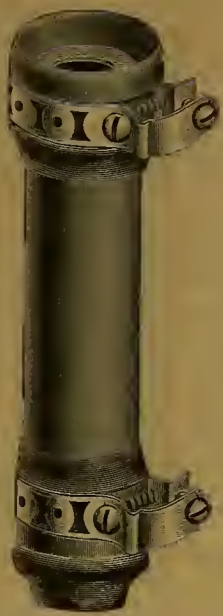
*Heavy Rubber, held by Hooks.

All of above One Dozen per Box.

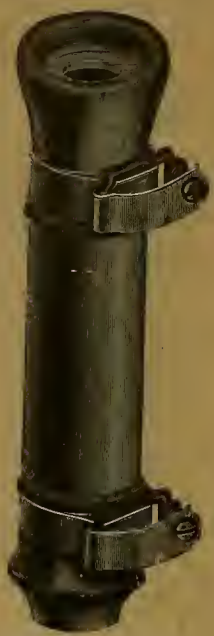
WOOD WHIP SOCKETS

No. 43
Wood Dash

No. 43—Black, length 6½ ins., with rubber...Per doz., $1.80
No. 44—Black, with nickeled band fasteners, length 6½ inches, with rubber..... " 2.50



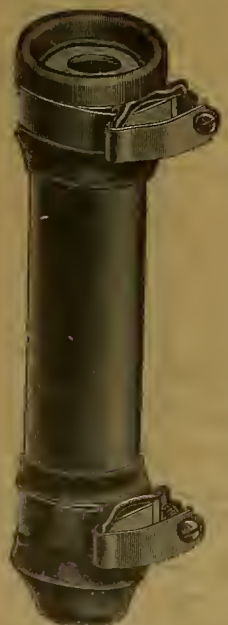
No. 44
*** Leather Dash**



Nos. 47 and 47½
† Leather Dash

No. 87
† Leather Dash

No. 47 —Black, length 6½ in., with rubber. Per doz., $1.80
No. 47½—Black, length 7 in., with rubber... " 1.80
No. 47½—Black, with nickeled bands..... " 2.50
No. 87 —Black, with rein holder, 6½ in. long " 2.50



No. 110½
†Leather Dash

No. 108¼
Wood Dash

No. 110½—Black, length 6½ in., with rubber. Per doz., $1.80
No. 108¼—Oak, nat. fin., lgth. 7 in., with rubber " 4.00
*Nickeled Security Fancy Band Fasteners.

No. 108½
‡ Leather Dash

No. 125¼
Wood Dash

No. 108½—Oak, nat. fin. lgth 7 in., with rub. Per doz., $4.00
No. 125¼—Oak, nickeled top, 7 in., with rub. " 6.00
† Leader Band Fasteners. ‡Caffrey Fasteners.

WOOD WHIP SOCKETS

* No. 30½

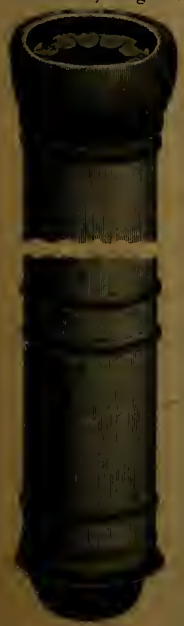
† No. 48

No. 30½, 7-in.; No. 35½, 6¼-in.; No. 41½, 7½-in. Black ..... Per doz., $5.00
No. 48—Black, length 6¼ ins., with rubber.. " 2.50
No. 49—Black, length 7 ins., with rubber.... " 2.50

‡ No. 51

No. 56½

No. 51 —Black, length 7 ins., with rubber, . Per doz., $2.50
No. 56½—Black, length 7 inches, Metal Cap and rubber held by Hooks..... " 4.50



No. 57

‡ No. 160

No. 57—Black, length 8 inches..... Per doz., $4.00
No. 160, 6¼ ins.; No. 170, 7 ins.—Black.... " 4.00
No. 160 or 170—Nickeled Cap and Bands.... " 5.20

† No. 205

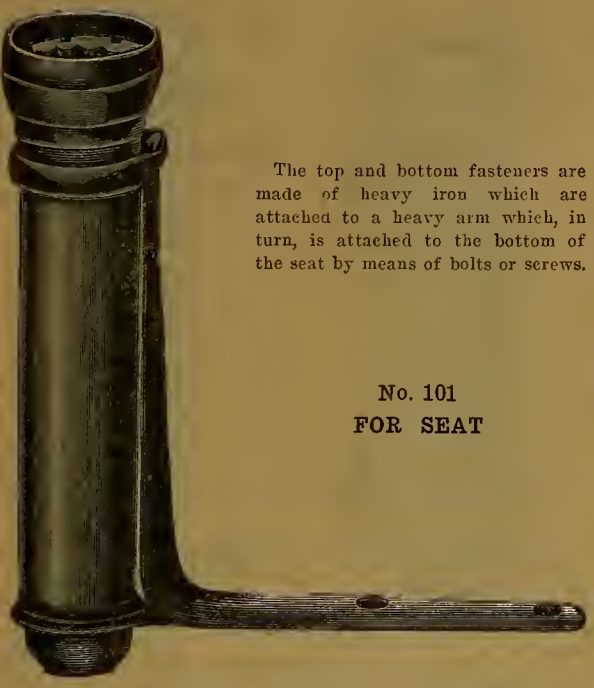
† Nos. 97 and 98

No. 205—Black, length 7 inches..... Per doz., $4.00
No. 97—Black, length 6½ ins., Rubber Cap. " 7.00
No. 98—Black, length 7 ins., Rubber Cap.... " 7.00

All of above for Leather Dashes, except No. 56½, Wood Dash. Packed ½ doz. per box.

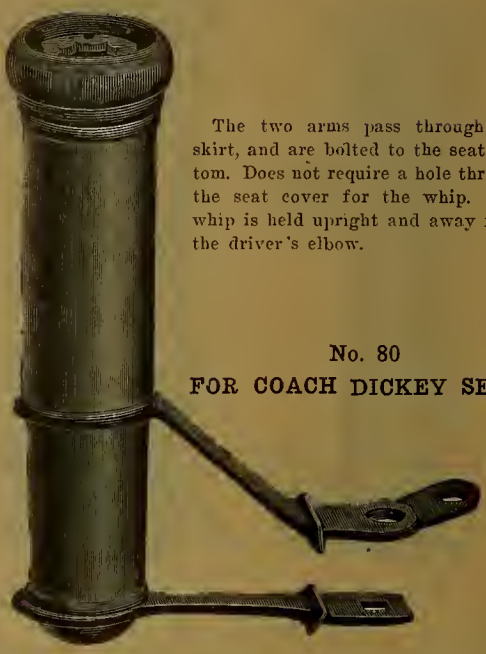
*Vise Fasteners. †Security Band Fasteners. ‡Caffrey Band Fasteners.

WOOD WHIP SOCKETS



The top and bottom fasteners are made of heavy iron which are attached to a heavy arm which, in turn, is attached to the bottom of the seat by means of bolts or screws.

No. 101
FOR SEAT



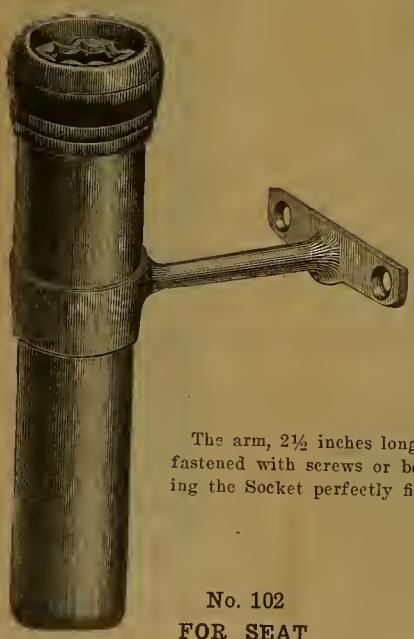
The two arms pass through the skirt, and are bolted to the seat bottom. Does not require a hole through the seat cover for the whip. The whip is held upright and away from the driver's elbow.

No. 80
FOR COACH DICKEY SEAT

No. 101—Black, length 7½ ins.....Per doz., $9.00
(With Metal Cap and Rubber held by Hooks.)

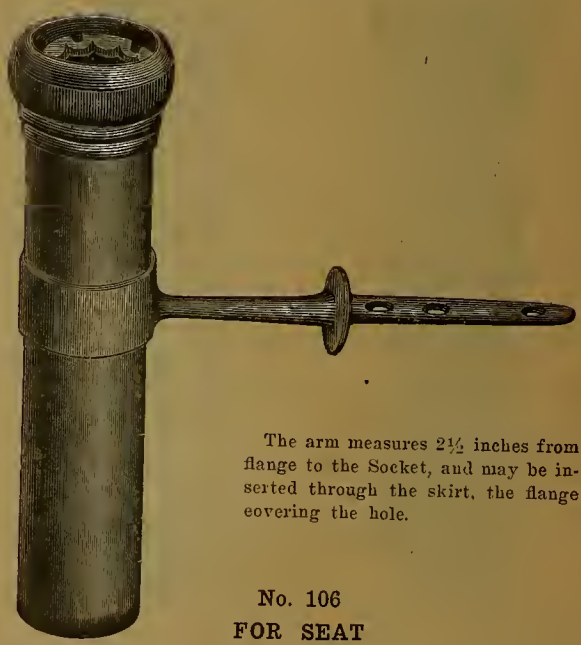
No. 80—Black, length 7½ inches.....Per doz., $7.00
(With Metal Cap and Rubber held by Hooks.)

One-half Dozen per Box.



The arm, 2½ inches long, is to be fastened with screws or bolts, holding the Socket perfectly firm.

No. 102
FOR SEAT



The arm measures 2½ inches from flange to the Socket, and may be inserted through the skirt, the flange covering the hole.

No. 106
FOR SEAT

No. 102—Black, length 7½ inches.....Per doz., $7.00
(With Metal Cap and Rubber held by Hooks.)

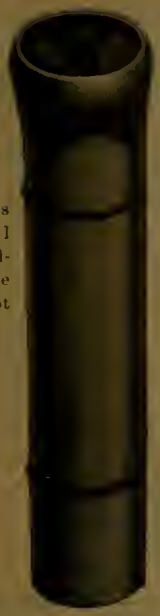
No. 106—Black, length 7½ inches.....Per doz., $7.00
(With Metal Cap and Rubber held by Hooks.)

One-half Dozen per Box.

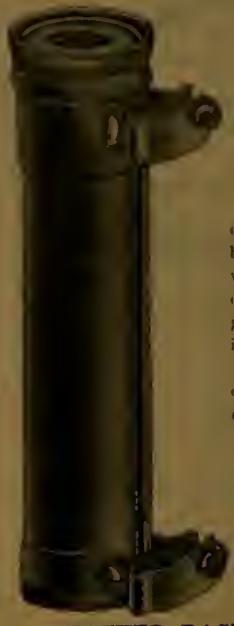
LEATHER COVERED WHIP SOCKETS

This Socket has Tempered Steel Springs that will always hold, and Cone Bottom that will not punch out.

Lined half length.



No. 296



No. 251¼

This Socket is equipped with Rubber Cushion Cap, which serves to secure the whip and to give the Socket a finished appearance.

Furnished with Security Band Fasteners.

LEATHER DASH

Per doz.

No. 296 —Black, lgth. 6½-ins., without fasteners.....$3.60
No. 296¼—Black, lgth. 6½ ins., with Security fasteners. 4.50
No. 296½—Black, lgth. 6½ ins., with Caffrey fasteners. 4.50
No. 296¾—Black, lgth. 6½ ins., with Chamberlain fasrs 4.50
No. 296⅞—Pigskin, lgth. 6½ ins., without fasteners... 5.00

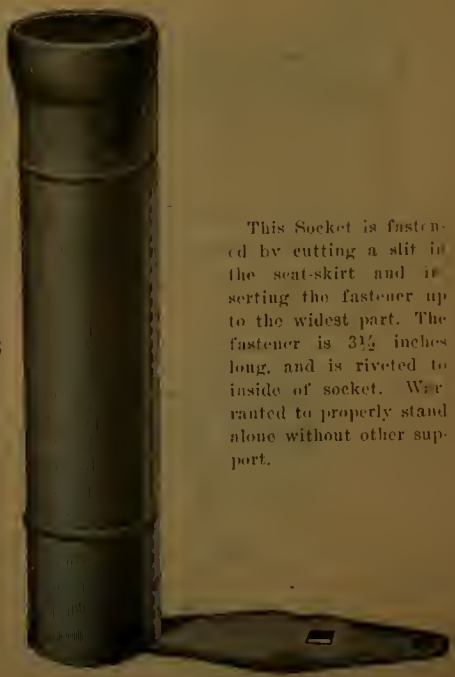
One-half Dozen per Box.

LEATHER DASH

No. 251¼—Black, length 6½ inches.....Per doz., $7.00
(With Rubber Cushion Cap.)

The Whip may stand straight in the upright socket or rest at an angle in the inclined socket within easy reach of the driver. Furnished without fasteners.

No. 237½



No. 298

This Socket is fastened by cutting a slit in the seat-skirt and inserting the fastener up to the widest part. The fastener is 3½ inches long, and is riveted to inside of socket. Warranted to properly stand alone without other support.

"T" CART

Per doz.

No. 237½—Black, lgth. 7 ins., incline 3 ins. long.....$24.00

One-half Dozen per Box.

COACH SOCKET

No. 298—Black, length 7½ ins., with dbl bbl..Per doz., $9.00
(Full length leather lining.)

WHIP SOCKET FASTENERS AND REIN HOLDERS

No. 199

CHAMBERLAIN'S FASTENER

1¼, 1⅜, and 1½ inches diameter.

No. 199—Black Enamel Finish.....Per doz. pair, $1.25
The jaws are light and do not bulge the leather.

CAFFREY'S FASTENER

Adjustable, Black Enamel Finish.....Per doz. pair, $1.25
Hinged Clamp and Buckle.
(See Whip Socket No. 51 for illustration of application.)

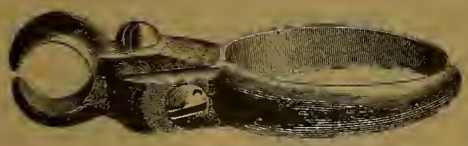


Illustration is exact size.

DICKEY SEAT FASTENER

Adjustable, 1⅜ to 1⅝ inch, Japanned...Per doz. pair, $4.50

Illustratiou is exact size.

CARRIAGE PATTERN REIN HOOK

No. 1—Japanned.....Per doz., $0.60

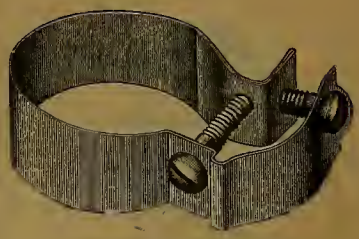


Illustration is exact size.

No. 188

SECURITY BAND FASTENER

Black Enamel Finish.....Per doz. pair, $1.25
This device is the best, both in strength and style and is the easiest to put on of any Band Fastener. Made of one piece of metal.

Illustration is half of full size.

BEHREN'S REIN HOLDER

No. 180—Japanned . .....Per doz., $5.00
No. 185—Nickeled . ..... " 8.00

Illustration is half of full size.

WAGON PATTERN REIN HOOK

No. 2—Japanned . .....Per doz., $0.75

CARRIAGE LAMPS

BALTIMORE

	(.....Body.....)			Extreme	Per
	Front.	Side.	Height.	Length.	Pair.
No. 3—	3½	4¼	3½	11½-in.	$6.50
No. 5—	3¾	4¾	3¾	12 -in.	7.50

Diameter of round flange:—
No. 3, 5¼-in. No. 5, 5¼-in.
Full Silvered Head and Stem.

NATIONAL

	(.....Body.....)			Extreme	Per
	Front.	Side.	Height.	Length.	Pair.
No. 3—	3½	4¼	3½	11 -in.	$7.00
No. 5—	3¾	4¾	3¾	11½-in.	8.00

Diameter of oval flange:—
No. 3, 5½x4½-in. No. 5, 6x5-in.
Full Silvered Head, Neck and Stem.

ARIZONA

	(..... Body .....)			Ext.	Per
	Dia.	Lgth.	Side Glass.	Lgth.	Pair.
No. 6—	5	5¾	5¼x4	14-in.	$16.00

Diameter of round flange:—
No. 6, 6-in.

ACATENA

	(.... Body.....)			Extreme	Per
	Front.	Side.	Height.	Length.	Pair.
No. 6—	4¼	4¼	5	13¾-in.	$ 9.00
No. 8—	5	5	5½	16¼-in.	12.00

BARTON

	(.....Body.....)			Extreme	Per
	Front.	Side.	Height.	Length.	Pair.
No. 5—	3¾	4¾	3¾	12¼-in.	$7.50
No. 5½	4	5¼	4½	13-¼-in.	8.50

BOYD

	(.....Body.....)			Extreme	Per
	Front.	Side.	Height.	Length.	Pair.
No. 5—	3¾	4¾	3¾	12-in.	$5.50

All of above Lamps are Silver Mounted and Lined, and have Sockets on Sides for Finger Props.
All of above Lamps are Oil Burners except the National, which is also a Candle Burner.

CARRIAGE LAMPS

LENOX

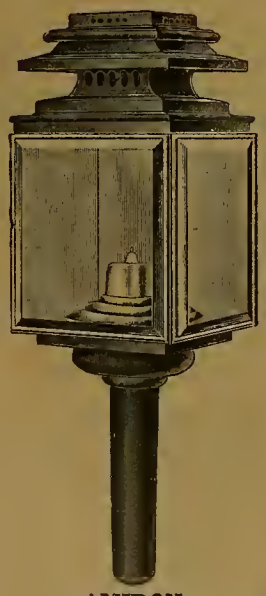
	(.....Body.....)			Extreme	Per
	Front.	Side.	Height.	Length.	Pair.
No. 3—	5	6½	6¾	19 -in.	$19.50
No. 5—	4¼	5	5¼	17½-in.	13.00

BOONTON

	(.....Body.....)			Extreme	Per
	Front.	Side.	Height.	Length.	Pair.
No. 1—	6	6	7	21-in.	$28.00
No. 2—	5⅜	5⅜	6½	20-in.	23.00

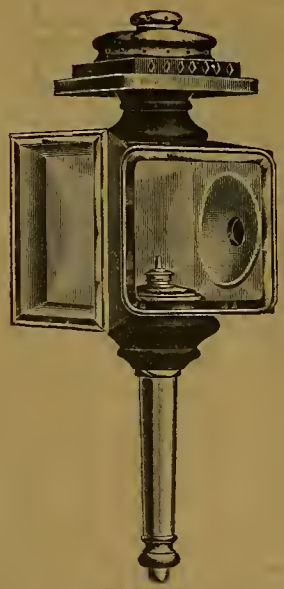
SUBURBAN

	(.....Body.....)			Extreme	Per
	Front.	Side.	Height.	Length.	Pair.
No. 0—	6¼	8	8	22-in.	$40.00



AMIDON

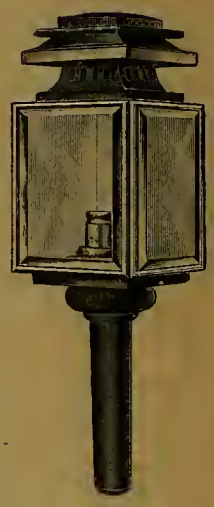
	(.....Body.....)			Extreme	Per
	Front.	Side.	Height.	Length.	Pair.
No. 1—	5⅜	6	7	19½-in.	$35.50



TALBOT

	(.....Body.....)			Extreme	Per
	Front.	Side.	Height.	Length.	Pair.
No. 0—	6⅝	7	6⅝	22½-in.	$39.00

Size Flange, 7⅞x7⅜-in.



PRESCOTT

	(.....Body.....)			Extreme	Per
	Front.	Side.	Height.	Length.	Pair.
No. 3—	5	5	6¼	17½-in.	$22.00
No. 4—	4½	4½	5¾	16½-in.	18.00
No. 5—	4¼	4¼	5	16 -in.	15.00

All of above Lamps are Oil Burners and are Silver Mounted and Lined, and have Sockets on Sides for Finger Props.

CARRIAGE ETC. LAMPS

RHONE
Oil Burner

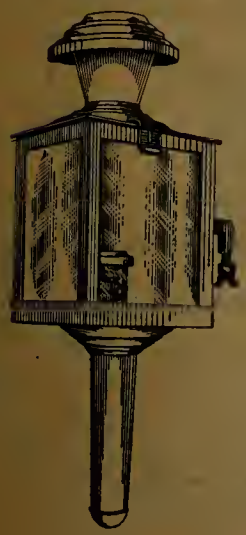
	(...Body...) Diam.	Height.	Extreme Length.	Per Pair.
No. 8—	7½	7¼	18¾-in.	$43.00

Full Silvered Head, Neck and Stem.
Four Swelled Bent Glasses, 7½x4 in.

IVY
Oil Burner

	(...Body...) Diam.	Height.	Extreme Length.	Per Pair.
No. 6—	6	5¾	15¾ in.	$24.50

Full Silvered Stem.
Four Swelled Bent Glasses, 6x3¼ in.



Glass Exposed

RANDALL HEARSE LAMP
Oil Burner

	(.....Body.....) Front.	Side.	Height.	Extreme Length.	Per Pair.
No 8½—	6	6	7	34-in.....	$50.00

Silver Lined and Mounted.
Full Silvered Head, Neck and Stem.

The Concord Stage Lamp is so devised as to enable the protection of the glass when the lamp is not in use. The upper portion of the lamp (that part containing the glass), can be instantly removed and reversed, the glass thus being faced against the metal back and side of the lower portion of the lamp, and the openings, where the glass is normally placed, being closed with the metal back and side of the upper part of the lamp.

Glass Protected

CONCORD REVERSIBLE STAGE LAMP
Candle Burner

	Front.	Side.	Height.	Extreme Length.	
No. 2—	5 inches.	5 inches.	7 inches.	18½ inches.....	Per pair, $16.00
No. 3—	5½ inches.	5½ inches.	7½ inches.	19½ inches.....	" 18.00
No. 4—	6 inches.	6 inches.	8 inches.	20½ inches.....	" 20.00

With Polished Brass Head, Japanned Body and Stem, and Hook Props. Burns Candles 1¼x5 inches.

DRIVING LAMPS

No. 55—NEVEROUT

No. 55N—Full Nickeled, German Silver Reflector,. Each $4.50
(Weight 12½ ounces, height 6½ ins., diameter face, 3 in.)

The patent elbow bracket admits of any adjustment, and this, together with the stylish appearance and durability, makes this an exceedingly popular Dash Lamp. Burns kerosene, and one filling is sufficient for seven hours use.

One per Box.

No. 53—NEVEROUT

No. 53N—Full Nickeled, German Silver Reflector. Each, $4.50
No. 53B—Full Polished Brass, Ger. Silver Reflec.. " 5.00
(Weight 20 ounces, height 9¼ in., diameter face 4¼ in.)

Equipped for Finger Prop Irons, but can be used with No. 46 Dash Brackets. This is a very handsome and well-made Dash or Side Lamp. Burns kerosene, and one filling is sufficient for ten hours use.

One per Box.

No. 4J—UNION DRIVING No. 46—BRACKET

No. 4J—Japanned, Aluminum Reflector.....Each, $5.00
(Height 11½ inches, diameter glass, 5¾ inches.)
No. 46—Japanned Dash Bracket.....Each, $0.40

The No. 4J Lamp has a one-half inch brass rim around the glass, which adds greatly to the appearance. Can he fastened to either side of the dash, or can be used with finger prop. Burns kerosene, and is proof against wind and vibration.

One per Box.

No. 14—DANDY DRIVING

No. 14—Japanned, Nickel Trimmed.....Each, $3.50

Height over all, 8 inches, diameter face, outside of flange, 4¼ inches. Diameter of glass, where attached to flange, 3½ inches. Furnished with leather covered spring back attachment to fit on top of Dash. Also furnished with Sockets on sides for use with finger props or No. 46 attachment. A well-made lamp, with double ventilated body. Burns kerosene oil, and gives a good light.

One per Box.

LAMP ACCESSORIES

COACH CANDLES

Wax

Diam.	Length.		
⅞ inches.	2½ inches..	Per doz.,	$0.50
⅞ inches.	3½ inches..	"	.70
1 1/16 inches.	3 inches..	"	.80
1¼ inches.	3 inches..	"	1.00
1¼ inches.	5 inches..	"	1.60

One Dozen per Box.

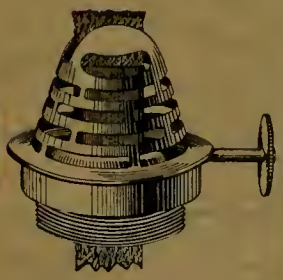
ANTI-CANDLES

Patent

Diam.	Length.		
No. 6—1¼-in.	5 -in..	Per pr.,	$1.75
No. 8—1⅜-in.	5¾ in..	"	1.75
No. 10—1 -in.	5¾-in..	"	1.75
No. 12— 7/8-in.	5⅝-in..	"	1.75

A substitute for candles. Burns kerosene, and one filling will last ten hours.

Round Wick



Flat Wick

LAMP BURNERS

Round Wick.....Per pair, $0.50
Flat Wick..... " .50

No. 494

LAMP FINGER IRONS

Wrought

Height.	Diameter Top.	Bot.	Per Doz. Pr.
No. 494S—5 -in.	7/8-in.	5/8-in...	$2.40
No. 494L—5½-in.	½-in.	11/16-in...	3.00

Malleable

	Hgt.	Stand.	Per Doz. Pr.
No. 4940—Japd.	3¼-in.	⅝-in.	$3.00

For attaching lamp to canopy top standards.

No. 4940

LAMP FINGER IRONS

	Hght.	Proj.	Size Bolts.	
No. 4925—Japd.,	8½-in.	3¼-in.	¼-in.....	Per doz. pr., $4.80

	Height.	Projec.	Bevel	
No. 4935—Japd.,	4-in.	3½-in.	75°..	Per doz. pr., $4.80

No. 4925

No. 4935

CREDITS AND COLLECTIONS

Credit means: Belief, trust, to confide in. You fully believe, when you open a new account, that your customer will pay you according to your terms, and you trust to his honesty to do so at maturity; if be respects the confidence you repose in bim, he will settle.

Collections: We all know tbis means to gatber in or to get together the confidence or credit whicb we have entrusted in our customer. Everybody expects credit, we rely on it; why, therefore, do we not give this portion of our business more attention?

Credit is the originator and beginning of business. Witbout credit, there would be practically no business.

No factor is so necessary in building up a business as credit, and no factor is so necessary in building up credit as truth.

Too many of us treat a request for a settlement of an overdue account as an insult. This is not the right feeling. Remember, when your account is due, it should be paid, and, if for any reason it cannot, make known that reason to your Creditor. An overdue account is exactly the same as a demand loan from a bank, payable at once, and furthermore, interest should be paid for the accomodation of being carried.

No man should become the Creditor of any man wbo is not both willing and able to pay his own debts upon the expiration of the credit, and no man ought to be a Debtor who bas not the means present, within clear and sure prospect, to pay when the debt becomes payable.

SHAFT AND POLE TRIMMINGS

TIPS,

ATTACHMENTS,

SHAFT LEATHERS

AND ANTI-RATTLERS

GENERAL INFORMATION

Subdivision of "Shaft and Pole Trimmings"

SHAFT TIPS are used for the purpose of giving a finish to, and protecting the shaft end, SHAFT SOCKET ENDS being a shaft repairing substitute.

POLE TIPS, POLE CRABS, WHIFFLETREE TIPS and NECKYOKE TIPS serve both as end finishers and protection to the various parts to which they apply and as means of attachment of the harness.

TUG STOPS serve to prevent tug loop from passing back of the point at which the tug stop is fastened to the shaft, thus making the use of breeching straps not absolutely necessary.

SHAFT STOPS are applied to the shaft at a point a few inches in front of the shaft coupling and serve as a rest for the shaft when raised to a vertical position in the stable, the top of the shaft stops coming into contact with the front end of the gear braces when the shafts are in an upright position.

TRACE POSTS are attached to the shaft crossbar, or "splinterbar," or pole bar, where whiffletrees are not used, "ragged" trace posts sometimes being applied at the outside, to serve as a step, if desired.

TRACE ATTACHMENTS serve to keep the trace in position on the whiffletree.

NECKYOKE CENTERS attach to the Neckyoke and pass over the pole tip, when in use on the harness.

FINISHED NECKYOKES are obtainable fully painted and finished, and unpainted (in the white), and are equipped with NECKYOKE TIPS and CENTERS.

SHAFT LEATHERS are used as follows: TIP PIECES to finish end of shaft back of shaft tip, HOLD-BACK PIECES: To bind the shaft at point of application of breeching strap, SINGLETREE PIECES to bind the singletree where equalizer straps pass around same.

A set of SHAFT STRAPS consists of eight pieces, used in pairs successively as follows: To form breeching strap loops on shaft, trace loops on shaft, and equalizer loops attached to cross or pole bar, passing around whiffletree, the "keys" being used to maintain the traces on whiffletrees.

SPRING BUFFER STRAPS maintain the Spring Buffer in position.

EVENER STRAPS are attached at one end to the axle, and the other end to the doubletree, serving as equalizers.

ANTI-RATTLERS are inserted at the pole or shaft coupling for the purpose of obviating vibration and rattling.

SHAFT TIPS

PLAIN, FLAT END

Composition

Size hole, inches	¾	⅞	1	1⅛	1¼
Per Dozen Pair—					
No. 8—Silvered, 1¾-in. long.	$1.50	$1.50	$1.80	$2.30	$2.90
No. 10—Silvrd or Brass, 2-in..	2.40	2.40	2.90	3.50	4.30
No. 12—Silvered, 2½-in. long.	3.70	3.70	4.50	6.30	8.00

One Dozen Pair per Box.

PLAIN, ROUND END

Composition

Size hole, inches	¾	⅞	1	1⅛	1¼
Per Dozen Pair—					
No. 80—Silvrd., 1¾-in. long..	$1.50	$1.50	$1.80	$2.30	$2.90

Drawn Steel Shaft Tips

No. 20—Silvered, ⅞x1¾ inches..... Per doz. pair, $1.00
No. 25—Silvered, 1x2 inches..... " 1.50

One Dozen Pair per Box.

No. 35—EXPRESS TIP

Extra Heavy, Cast Brass

Size hole, inches	1¼	1⅜	1½	1⅝
Per Dozen Pair—				
*No. 35—Sil. or Brass, 3-in...	$8.50	$9.50	$11.00	$13.00

One Dozen Pair per Box.

No. 15—OCTAGON TIP

Composition

Size hole, inches	¾	⅞	1	1⅛	1¼
Per Dozen Pair—					
No. 15—Sil. or Brass, 2½-in..	$8.00	$8.00	$9.00	$12.00	$16.00

One Dozen Pair per Box.

No. 387—BALL TIP

Extra Heavy, Cast Brass

Size, inches	1¼x3¼	1⅜x3½	1½x4
*No. 387—Silvrd., Per doz. pair,	$10.40	$12.00	$13.80

One Dozen Pair per Box.

*These tips are frequently used as stake caps for fancy delivery trucks or wagons, and add materially to the appearance and finish of the vehicle.

No. 3825—OVAL END TIP

Heavy Malleable Iron

Size, inches	⅞x1¾	1x1¾	1⅛x1⅞	1¼x2
Japanned....Per doz pr.,	$0.75	$0.90	$1.20	$1.60
Size, ins.	⅞x1¾	1x1¾	1⅛x1⅞	1¼x2	1⅜x2	1½x2
XC. Plate...	$0.90	$1.10	$1.50	$2.10	$3.70	$6.00

Dowel Pattern

Spliced Pattern

STEEL SHAFT SOCKET ENDS

Japanned, Nickeled Tips

Buggy Size, Hole 1½ ins., length 28 ins... Per sgl. doz., $7.20 **Surrey Size,** hole 1⅝ ins., length 28 ins...Per sgl. doz., $9.60

Two Dozen per Box.

These devices are used for repairing broken shafts. Easily put on. Strong and serviceable. Very neat in appearance.

POLE TIPS

No. 18—FLAT END, FLANGED PATTERN

Composition

Size hole, inches		1	1⅛	1¼	1⅜	1½
Length, inches		7¼	7¼	7¾	8	8
No. 18—Silver or Brass Plated	Per doz.,	$15.00	$15.00	$16.50	$18.50	$21.00

No. 12—ROUND END, FLANGED PATTERN

Composition

Size hole, inches		1	1⅛	1¼	1⅜	1½	1⅝
Length, inches		6¼	6¼	6¾	7	7¼	8
No. 12—Silver or Brass Plated, extra heavy flange	Per doz.,	$12.00	$12.00	$13.50	$15.50	$18.00	$24.00

No. 25—OCTAGON PATTERN, FULL FLANGED

Composition

Size hole, inches		1	1⅛	1¼	1⅜	1½
Length, inches		7¼	7¼	7½	7½	8
No. 25—Silver or Brass Plated	Per doz.,	$19.00	$19.00	$20.50	$22.50	$26.00

All of above, Half Dozen per Box.

POLE CRABS

No. 54

BEST MALLEABLE IRON

C. P. Silver Plated

Size Hole.	Length Pod.	Width across Arms.	Each.
1½ inches	4¾ inches	6¼ inches	$5.15
1⅝ inches	4⅞ inches	6½ inches	5.40
1¾ inches	5 inches	6¾ inches	5.75

No. 55

BEST MALLEABLE IRON

C. P. Silver Plated

Size Hole.	Length Pod.	Width across Arms.	Each.
1⅜ inches	4¾ inches	9½ inches	$5.15

No. 56

BEST MALLEABLE IRON

C. P. Silver Plated

Size Hole.	Length Pod.	Width across Arms.	Each.
1¼ inches	6 inches	6½ inches	$5.15
1⅜ inches	6 inches	6½ inches	5.75

No. 145

BEST MALLEABLE IRON

C. P. Silver Plated

Size Hole.	Length Pod.	Width across Arms.	Each.
1⅜ inches	7¼ inches	10¾ inches	$3.60
1½ inches	7¼ inches	10¾ inches	3.75
1⅝ inches	7¼ inches	10¾ inches	4.25
1¾ inches	7¼ inches	10¾ inches	4.75

No. 477

BEST MALLEABLE IRON

C. P. Silver Plated

Size Hole.	Length Pod.	Width across Arms.	Each.
1⅜ inches	4⅞ inches	10¼ inches	$3.75
1½ inches	4⅞ inches	10¼ inches	4.25
1⅝ inches	4⅞ inches	10¼ inches	4.50
1¾ inches	4⅞ inches	10¼ inches	4.75

No. 465

FRENCH SWIVEL CRAB

Best Malleable Iron

Size Hole.	Length Pod.	Width Across Arms.	Finish.	Each.
1½ inches	2½ inches	6½ inches	C.P.Silver	$3.75
1½ inches	2½ inches	6½ inches	Polished	5.15

All of above, One per Package.

WHIFFLETREE ACCESSORIES, ETC.

WHIFFLETREE TIPS

No. 8—PLAIN PATTERN
Composition

Size hole, inches	¾	⅞	1	1⅛	1¼
Length, inches	3⅜	3½	4	4⅜	4¾
			Per Dozen Pair:—		
No. 8—Silvrd or Brass	$7.00	$7.00	$8.50	$12.50	$18.00

One Half Dozen Pair per Box.

No. 7—OCTAGON PATTERN
Composition

Size hole, inches	¾	⅞	1	1⅛	1¼
Length, inches	3⅜	3⅜	4⅛	4½	4¾
			Per Dozen Pair:—		
No. 7—Silvrd or Brass	$11.00	$11.00	$13.00	$17.00	$23.00

One-Half Dozen Pair per Box.

No. 11—COACH, BEADED
Composition

Size hole, inches	1⅛	1¼	1⅜
Length, inches	3¾	3¾	3⅞
No. 11—Silvered or Brass..Per set (4)	$3.75	$4.25	$5.00

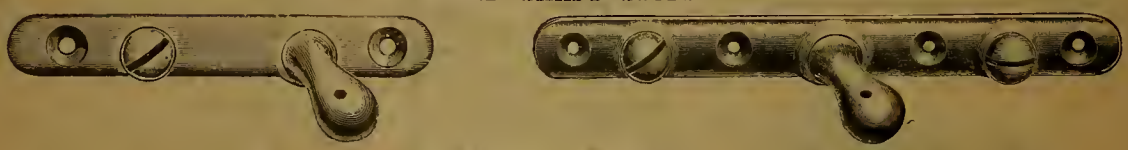
One Set per Box.

No. 110—COACH, BEADED
Composition

Size hole, inches	1⅛	1¼	1⅜	1½
Length, inches	4⅛	4¾	5	5
No. 110—Sil. or Brass. Per set (4)	$3.50	$4.00	$5.00	$6.00

One Set per Box.

TUG AND SHAFT STOPS

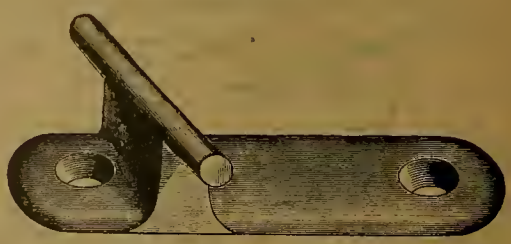


SHAFT TUG STOPS
Composition

No. 338—Straight Pattern
No. 338—Length 4 ins., Nickeled or Brass....Per pair, $1.40
Price includes screws.
One Dozen Pair per Box.

No. 336—Straight Pattern
No. 336—Length 6 ins., Nickeled or Brass....Per pair, $1.70
Price includes screws.
One Dozen Pair per Box.

No. 337—Curved Pattern
SHAFT TUG STOP
Composition
No. 337—Length 6½ ins., Nickeled or Brass..Per pair, $1.70
Price includes screws.
One Dozen Pair per Box.



COUPE SHAFT STOP
Malleable
Coupe Shaft Stops .....Per lb., $0.25
Two Dozen per Box.

WHIFFLETREE ACCESSORIES, ETC.

Brougham Pattern

Landau Pattern

HUMANE TRACE POSTS

Brougham Pattern.....Per set (4), $10.00 **Landau Pattern**.....Per set (4), $10.00

These posts are made of brass, except the corrugated top, which is made of iron and finished for painting.

One Set per Box.

No. 390

No. 393

No. 392

FORGED STEEL TRACE POSTS

	Size Top.	Length.	Bolt.	
No. 390—Oval, Hand Ragged	4 x2¾ inches.	5 inches.	⅞-inch square	Per pair, $1.80
No. 392—Square, Hand Ragged	3½x2½ inches.	5 inches.	⅞-inch square	" 1.95
No. 393—Round, Single Bead	2½ inches.	6 inches.	⅞-inch square	" 1.10

A set of Trace-posts consists of one pair of either No. 390 or 392, and one pair of No. 393.

Four Pair per Box.

Excelsior

San Carlos

TRACE ATTACHMENTS

Japanned.....Per doz. pair, $0.75
Nickeled..... " 2.25

This is a simple and neat device for holding the trace. It is absolutely impossible for the trace to work off, if the rivet hole is made 3½ inches from end of whiffletree.

One Dozen Pair per Box.

Japanned.....Per doz. pair, $1.50

This is a double trace holder, permitting the doubling of the trace back when the front hole is used.

One Dozen Pair per Box.

NECKYOKE ACCESSORIES

NECKYOKE TIPS

No. 10—FLAT END, PLAIN

Composition

Size hole, inches	¾	⅞	1	1⅛
Length, inches	4	4¼	4½	4¾
No. 10—Sil. or Brass..Per doz. pr.	$10.50	$10.50	$14.00	$18.00

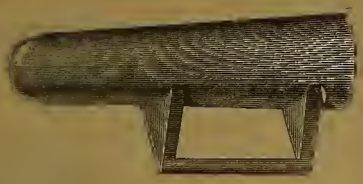
One-half Dozen Pair per Box.

No. 600—FLAT END, BEADED

Composition

Size hole, inches	⅞	1
Length, inches	3⅜	3⅝
No. 600—Silver Plated.....Per doz. pair,	$8.00	$10.00

One-half Dozen Pair per Box.



No. 13—ROUND END

Composition

Size hole, inches	⅞	1
Length, inches	3⅜	3⅝
No. 13—Silver Pltd. or Brass.Per doz. pair,	$8.50	$11.50

One-half Dozen Pair per Box.

No. 11—OCTAGON PATTERN

Composition

Size hole, inches	¾	⅞	1	1⅛
Length, inches	4	4¼	4½	4¾
No. 11—Sil. or Brass..Per doz. pr.	$16.00	$16.00	$20.00	$26.00

One-half Dozen Pair per Box.

NECKYOKE ACCESSORIES AND NECKYOKES

NECKYOKE CENTERS

COVERTS

No. 1 Coverts ..... Per doz., $12.00

For Yokes 1½, 1⅝, 1¾, 1⅞, 2, 2⅛, and 2¼ inches.

Made of best heavy harness leather, with steel band 3 inches wide, leather covered.

One-half Dozen per Box.

No. 40 NEW SECURITY

No. 40—New Security ..... Per doz., $9.00

For Yokes 1½, 1⅝, 1¾, 1⅞, 2, and 2¼ inches.

Made of selected heavy harness leather, with steel band 3 inches wide, leather covered.

One-half Dozen per Box.

No. 70 NEW SECURITY
Adjustable

No. 70—New Security, heavy, for yokes 2¼ inches or smaller ..... Per doz., $18.00

No. 75—New Security, extra heavy, for yokes 2½ inches or smaller..... " 21.00

Made entirely of selected heavy harness leather; measures 3¼ inches wide at the top and is adjustable.

One-half Dozen per Box.

SHUMAN'S SWIVEL
Steel, Leather Lined Hole

	Width of Sleeve Clasp.	Diameter Sleeve Clasp.	Diameter Pole Hole.		
No. 1—	2¾-in.	1½ to 1⅝-in.	1¼-in.	Per doz., $	9.00
No. 2—	2¾-in.	1⅝ to 1¾-in.	1⅜-in.	"	9.00
No. 3—	3 -in.	1¾ to 1⅞-in.	1½-in.	"	9.75
No. 4—	3 -in.	1⅞ to 2 -in.	1⅝-in.	"	9.75
No. 5—	3¼-in.	2¼ to 2¼-in.	1¾-in.	"	10.50

One-half Dozen per Box.

FINISHED NECKYOKES

NECKYOKE WITH HEAVY LEATHER CENTER AND METAL TIPS

Acme, Black Hickory, 4-inch Malleable Tip
Painted Black.

No. 4—	1⅞-inch diameter.....	Per doz.,	$15.00
No. 5—	2 -inch diameter.....	"	17.50
No. 7—	2¼-inch diameter.....	"	24.00

Star, Second Growth, 4-inch Malleable Tip
In the White.

No. 4—	1⅞-inch diameter.....	Per doz.,	$21.00
No. 5—	2 -inch diameter.....	"	24.00
No. 7—	2¼-inch diameter.....	"	30.00

SHAFT LEATHERS AND STRAPS

SHAFT LEATHERS

Made of Patent Leather

	Tip Pieces.	Hold-back Pieces.	Singletree Pieces.	Per Set.
Set No. 1—	Two pieces, 4x6x24 inches, plain.	2 pieces 6x8 inches, plain.	2 pieces 4x6 inches, plain	$1.10
Set No. 2—	Two pieces, 4x6x36 inches, plain.	2 pieces 6x8 inches, plain.	2 pieces 4x6 inches, plain	1.75
Set No. 3—	Two pieces, 4x6x24 inches, bound.	2 pieces 6x8 inches, bound.	2 pieces 4x6 inches, bound	1.65
Set No. 4—	Two pieces, 4x6x36 inches, bound.	2 pieces 6x8 inches, bound.	2 pieces 4x6 inches, bound	2.40

Extra Square Pieces

4x6-in.	Plain	Per 100,	$ 5.40
6x8-in.	Plain	"	10.80
4x6-in.	Bound	"	8.75
6x8-in.	Bound	"	17.50

Extra Tip Pieces

4x6x24-in.	Plain	Per 100,	$38.00
4x6x36-in.	Plain	"	70.00
4x6x24-in.	Bound	"	55.60
4x6x36-in.	Bound	"	93.00

SHAFT STRAPS

Harness Leather, Creased

Per doz. set.

Set No. 1—2 pcs. 8-in. 2 pcs. 10-in. 2 pcs. 12-in. 2 keys. $4.00

One Dozen Set per Box.

SHAFT STRAP

Harness Leather, Creased

Per 100.

Length, 12 inches, ⅞-inch wide $5.00

50 per Box.

SPRING BUFFER STRAP

Harness Leather, Creased

⅝-inch wide, 12 inches long Per doz. pair, $ 9.00

¾-inch wide, 14 inches long " 10.00

EVENER STRAP

Harness Leather, Creased

⅞-inch wide, 48 inches long Per doz. pair, $24.00

1-inch wide, 52 inches long " 27.00

ANTI-RATTLERS

Nos. 1209 and 5

No. 1209—Dandy ....Per doz. pr. $1.50
No. 5 —Burton's .. " 1.25

No. 1

No. 1—Burton's.....Per doz. pr. $2.00
(With Bolt Holder.)

Nos. 2 and 4

No. 2—Burton's ...Per doz. pr. $1.50
No. 4—Burton's.... " 2.50

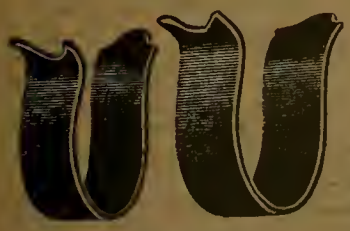
Nos. 1209, 5, 1, and 2, sre for ⅞ or 1-inch coupling; No. 4 is for 1⅛ or 1¼-inch coupling.
One Dozen Pair per Box.

JOHNSON'S

No. 1—For ⅞, 1 or 1⅛-inch axle.....Per doz. pr. $2.25
No. 2—For 1¼ or 1⅜-inch axle..... " 2.50
One Dozen Pair per Box.

SAN CARLOS QUICK-SHIFTER

San Carlos Quick-Shifter and Anti-Rattler combined, to fit ⅜ or ⅞-inch bolt hole.....Per doz. pr. $5.00
One Dozen Pair per Box.



LADD'S

No. 1—For ⅞ and 1-inch couplings.....Per doz. pr. $1.50
No. 2—For 1⅛, 1¼ aud 1⅜-inch couplings " 2.00
No. 3—For 1½, 1⅝ aud 1¾-inch couplings " 2.50
One Dozen Pair per Box.

ANTI-RATTLER RUBBER

No. 225—Cloth lined, ⅞ or 1-inch.....Per strip, $2.00
No. 1203—Plain, ⅞ or 1-inch..... " 1.50

Two Feet per Strip.

COMPETITION

Competition, as the word is today understood in the business world, is of three kinds: Competition of Price, Competition of Credit, and Competition of Service.

Competition of Price was formerly considered to be the only form of competition, but it is now generally recognized that price competition carried to a point destructive of reasonable returns usually also destroys Service. Price is regulated by demand and supply, and the regulation of prices takes place much more rapidly than is generally realized.

Competition of Credit is false competition. When your customer is induced to patronize you because you let his bills run, you are taking a risk which may eventually impair your business, and meanwhile your business remains smaller by just the amount of capital witheld from it in the form of overdue accounts. In some localities an antiquated custom of "settling up once a year" survives. This custom has just as much right to exist as a business method, as the bow and arrow and wooden battleships as fighting instruments.

Competition of Service is a natural, legitimate form of competition, with unlimited possibilities. It is the only form of competition which wins in the end. Your customer "wants what he wants when he wants it," and if you can give it to him, "and then some," you win.

SUNDRY TRIMMERS' MATERIALS

TACKS AND NAILS,

BUTTONS, THREAD, ETC.

CUSHION SPRINGS AND WOODS

STIFFENING AND FILLING MATERIALS

DRESSINGS, GLUE, ETC.

BUCKLES, RINGS, ETC.

GENERAL INFORMATION

Subdivision of "Sundry Trimmers' Materials"

The uses of TACKS and NAILS are as follows: SOLID HEAD LINING NAILS, to tack bindiug over bows, to finish binding on backs, to tack shaft straps on shafts. CAPPED HEAD LINING NAILS, same as Solid Head Lining Nails, where better appearance is desired, etc. CAPPED HEAD SADDLE NAILS, for holding stiffening in shape on backs, fastening inside lace or head liniug flap to bows, smaller sizes to hold stiffening in shape on back bows and side quarters, etc. COVERED SADDLE, same as Capped Head Saddle Nails where it is desired to have the head match Trimming or Upholstery of vehicles, etc. MILONITE SADDLE NAILS, in similar manner to Capped Head Saddle Nails, principally in the upholstery of seat backs, etc. BRASS NAILS, principally for fastening liniug of automobile Cushious and Seat Backs, etc. ESCUTCHEON PINS, for fastening escutcheon plates, etc. SWEDES TACKS, wherever heads do not show in finish, 12 to 16 oz. in tacking on Shaft Straps, 1½ and 2 oz. for temporary use in fastening thin materials, 6 oz. in fiuishing backs, 2½ oz. in tacking head linings and coveriug bows. GIMP TACKS, to attach pasting and seaming lace and leather gimps. LACE TACKS, for the same purpose as Gimp Tacks where a better finish is desired. LEATHER COVERED and MILONITE TACKS, substitute for Gimp or Lace Tacks, etc.

TUFTING BUTTONS are used in making seat cushions and backs not equipped with springs, the buttons being used in pairs, at top and bottom, at frequent intervals, drawn together with Tufting Twine, for the purpose of holding the filling material in place.

CLINCH BUTTONS are used, in counection with washers at bottom, for the same purpose as tufting buttons, where springs are used, being clinched through the filled pad placed on top of the springs.

BUTTON TUFTS and HAND MADE TUFTS are used in the same manner as Tufting Buttons in high-class work, usually where cloth upholstery is used.

COPPER RIVETS and TUBULAR RIVETS are used in fastening straps, the latter also beiug used for riveting side quarters to back stays on work of cheap class.

GROMMETS are used to provide a metallic buttou hole to fasten Canopy Top, Delivery Wagon and Truck Top Curtains to hooks or knobs, as hooking eyes ou straps, etc.

LINEN THREAD holds color better than COTTON THREAD and has greater tensile strength, but is not so durable where exposed to friction and wear.

LOCK STITCH THREAD is used principally in coveriug dashes.

SHOE THREAD is usually used in applying the covering of Landau Tops, stitching dashes, valances, and any other purpose where a black Hand Thread is required.

SPOOL SILK is used where great durability or a fine finish is desired.

TUFTING TWINE is used to attach Tufting Buttons or Tufts together in seat cushions and backs.

SPRING TWINE is iuterwoveu from spring to spring, in spring seats and seat-backs for the purpose of maintaining the springs in place laterally.

SEAMING CORD is used for the purpose of forming a welt or hem on the edges of cushions and seat-backs, and in connection with pasting and seaming lace for interior trimming of heavy work, such as Landaus, etc.

BEESWAX and SHOEMAKER'S WAX are used as thread strengtheners, the latter being particularly applicable to harness and strap sewing, and used by trimmers when it is necessary to make up an extra heavy thread, by twisting regular threads together and waxing. Beeswax is used in hand sewing only.

CUSHION SPRINGS are used in cushions, in connection with Spring Twine, SPRING STRIPS and SPRING FRAMES, which provide partial or complete lateral fastening, as an improvement on the method of fastening by spring twine, being frequently substituted. Spring Frames, however, are not used in spring backs, it being necessary to use BACK SPRINGS laterally attached by means of Spring Twine, a modification being the PIVOT BACK SPRING, the lower end of which is fastened to the seat back with a screw.

Small CUSHION FRAMES are for use on heavy wagons, in connection with cushion pad, usually being provided with no covering or wooden frame.

BUCKRAM is used as stiffening or foundation material in back stays, in quarters of tops, cushions, backs, etc. DOUBLE BUCKRAM simply being two thickness of single Buckram pasted together and being used principally in back stays.

SCRIMS.—Used in body building, being glued to inside of body panels to obviate checking, warping, etc.

BURLAP is sometimes used in place of Unbleached Muslin in the quarters of tops, also below the covering in shaping up plain or untufted cushions and backs, etc.

STRAWBOARD is principally used as stiffening material for drop backs.

BACK STAY PAPER is a substitute for Buckram and Metallic Back Stay Strips in back stays.

STAY WEBBING is used on the quarters of tops, serving to relieve the strain on the top material when the bows are spread, and as a foundation to which to sew the top covering, also used as a strengthening material on the bottoms of filled cushions, etc.

EXCELSIOR, MOSS and CURLED HAIR are used as filling or stuffing for Cushions, Backs, and other upholstering, excelsior being used in cheap work, moss on medium priced work, and hair in the best class of work. Hair is also used in padding the quarters of tops.

WADDING is used to give a smooth surface between the covering and filling of cushions and seat backs, in padded dashes, and also as padding for top quarters.

TOP and HARNESS DRESSINGS are used to brighten up or dress tops, etc.

EDGE INK is used in trimming work to darken the edges of trimmed and cut leather.

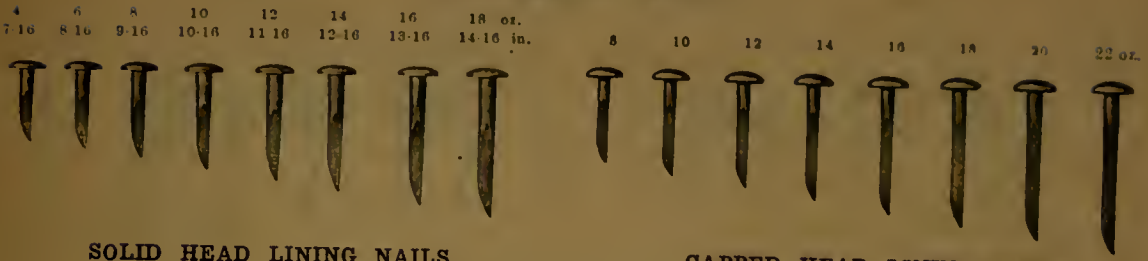
HARNESS OIL is used for the purpose of making leather pliable.

GLUE is used by Trimmers, when it is necessary, to attach leather or fabric work to wood parts, etc.

TRIMMERS' PASTE is used in pasting stiffening materials for back stays, quarters, side laces, in attaching cloth to curtains, and in attaching pasting lace and cushion facings, etc.

BUCKLES, RINGS, SNAPS and LOOPS are generally used by trimmers, in connection with the attachment of straps, etc. Used in various places on automobile running boards, bodies and tops; being sometimes used, however, in connection with tops of wagons, trucks and other heavy vehicles.

TRIMMERS' NAILS



SOLID HEAD LINING NAILS

Japanned

Weight, ounces.	4	6	8	10	12
Per lb.	$0.64	$0.56	$0.52	$0.50	$0.48
Per Paper	.07	.07	.07	.07	.07
Weight, ounces	**14**	**16**	**18**	**20**	**22**
Per lb.	$0.48	$0.48	$0.48	$0.48	$0.48
Per Paper	.07	.07	.07	.07	.07

CAPPED HEAD LINING NAILS

Japanned

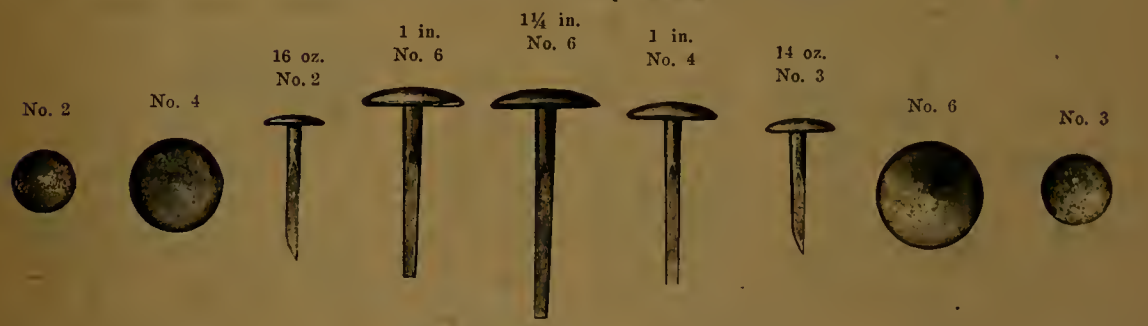
Weight, ounces.	4	6	8	10	12
Per Paper	$0.08	$0.08	$0.08	$0.08	$0.08
Weight, ounces	**14**	**16**	**18**	**20**	**22**
Per Paper	$0.09	$0.09	$0.09	$0.09	$0.09

Twenty Papers per Package.

X. C. Plate (Solid Head)

Weight, onnces.	6	8	10	12	16
Per Paper	$0.07	$0.07	$0.07	$0.07	$0.07

Japanned, Solid Head, carried in 1-lb. papers, 5-lb. boxes and in packages of 20 papers; XC Plate in packages of 20 papers.



CAPPED HEAD SADDLE NAILS

Japanned

Size	14 oz. No. 3	16 oz. No. 2	1" No. 4	1¼" No. 4	1½" No. 4	1¾" No. 4	1" No. 6	1¼" No. 6	1½" No. 6	1¾" No. 6
Per Paper	$0.17	$0.17	$0.17	$0.17	$0.17	$0.17	$0.20	$0.20	$0.20	$0.20

Polished Brass

Size	14 oz. No. 3	1" No. 6
Per paper	$0.22	$0.26

X. C. Plate

Size	14 oz. No. 3	1¼" No. 4	1½" No. 4
Per paper	$0.17	$0.17	$0.17

Ten Papers per Package.

CLOTH COVERED SADDLE NAILS

	Per Gro.
22 Line, Green, Blue or Brown	$0.60
22 Line, Drab or Maroon	.85
22 Line, Whipcord	.70

1 and 1¼-inches long.
One Gross per Box.

LEATHER COVERED SADDLE NAILS

	Per Gro.
22 Line, No. 77 Green or No. 73 Blue	$0.75
22 Line, No. 75 Med., or No. 78 Light Maroon	.75
22 Line, No. 66 Tan	.90

1 and 1¼-inches long.
One Gross per Box.

MILONITE SADDLE NAILS

22 Line, No. 77 Green .....Per paper, $0.30
22 Line, No. 78 Maroon ... " .30
22 Line, No. 79 Russet .... " .30
¾, 1 and 1¼ inches long.
100 per Paper.

BRASS NAILS AND PINS

No. 42 Brass Nails, ⅝-inch...Per 1000, $1.50
1000 Per Box.

No. 10 Escutcheon Pins, 1-inch. Per lb., $1.50
No. 12 Escutcheon Pins, 1-inch. " 1.50
One Pound per Box.

Brass Nail. Escutcheon Pin

TRIMMERS' TACKS

1½	2	2½	3	4	6	8	10	12	14	16	18	20	22	24 oz.
3½-16	4-16	5-16	6-16	7-16	8-16	9-16	10-16	11-16	12-16	13-16	14-16	15-16	16-16	18-16 in.

SWEDES IRON TRIMMERS' TACKS

Blued

Weight, ounces	1½	2	2½	3	4	6	8	10	12	14	16	18	20	22	24
Per pound	$2.56	$2.01	$1.76	$1.61	$1.46	$1.36	$1.26	$1.21	$1.16	$1.16	$1.16	$1.16	$1.16	$1.16	$1.16
Per doz. papers (full weight)	3.10	3.30	3.50	4.00	4.50	6.00	7.50	9.00	10.50	12.00	13.50	15.00	16.50	18.00	19.50

All weights carried in 1 lb. papers and in packages of one dozen papers, also, weights from 2½ to 16 oz. in 5-lb. boxes.

2	2½	3	4	6	8 oz.
5-16	6-16	7-16	8-16	9-16	10-16 in.

4	6	8	12 oz.
8-16	9-16	10-16	12-16 in.

GIMP TACKS

Japanned

Weight, ozs.	2	2½	3	4	6	8	10	12
Length, ins.	5/16	3/8	7/16	1/2	9/16	5/8	11/16	3/4
Per lb.	$3.76	$3.16	$2.76	$2.36	$2.16	$2.11	$2.06	$2.01
Doz. Papers.	3.60	3.85	4.10	4.60	5.60	6.95	8.35	9.85

1 lb. per Paper and 12 Papers per Package.

Tinned

Weight, ounces	2½	3	4	6	8
Length, inches	3/8	7/16	1/2	9/16	5/8
Per doz. Papers	$3.85	$4.10	$4.60	$5.60	$6.95

12 Papers per Package.

LACE TACKS

Blued

Weight, ozs.	2	2½	3	4	6	8	10	12
Length, ins.	5/16	3/8	7/16	1/2	9/16	5/8	11/16	3/4
Per lb.	$2.71	$2.36	$2.11	$1.76	$1.61	$1.51	$1.46	$1.41
Doz. Papers.	2.35	2.50	2.85	3.25	3.85	4.75	5.60	6.45

1 lb. per Paper and 12 Papers per Package

Japanned

Weight, ozs.	2	2½	3	4	6	8	10	12
Length, ins.	5/16	3/8	7/16	1/2	9/16	5/8	11/16	3/4
Per lb.	$3.76	$3.16	$2.76	$2.36	$2.16	$2.11	$2.06	$2.01
Doz. Papers.	3.60	3.85	4.10	4.60	5.60	6.95	8.35	9.85

1 lb. per Paper and 12 Papers per Package.

CLOTH COVERED TACKS

	Per Gross
14 Line, Green, Blue or Brown	$0.50
14 Line, Drab or Maroon	.70
14 Line, Whipcord	.60

Carried in 4, 6, 8, 10, 12, 14 and 16 ounce.
One Gross per Paper.

LEATHER COVERED TACKS

	Per Gross
14 Line, No. 77 Green or No. 73 Blue	$0.60
14 Line, No. 75 Med. or No. 78 Light Maroon	.60
14 Line, No. 66 Tan	.75

Carried in 6, 8, 10, 12 and 14 ounce.
One Gross per Paper.

MILONITE TACKS

5/8-inch, 15 line.

No. 77—Green, 5/8-inch, 15 line	Per 1000,	$2.00
No. 77—Green, 5/8-inch, 18 line	"	2.50
No. 78—Maroon, 5/8-inch, 15 line	"	2.00
No. 79—Russet, 5/8-inch, 15 line	"	2.00
A Spanish—Dark Red and Black, 5/8-inch, 18 line	"	2.50
B Spanish—Brown and Black, 5/8-inch, 18 line	"	2.50
C Spanish—Light Green and Tan, 5/8-inch, 18 line	"	2.50
E Spanish—Dark Green and Tan, 5/8-inch, 18 line	"	2.50
H Spanish—Dark Tan and Black, 5/8-inch, 18 line	"	2.50

The "Spanish" Tacks match the corresponding numbers of Imitation Spanish Leathers.
1000 per Box.

5/8-inch, 18 line.

BUTTONS AND TUFTS

MILONITE TUFTING BUTTONS

Line	22	24
Bright Black ..... Per great gross,	$1.75	$2.00
No. 77 Green ..... " "	2.00	2.30

One Great Gross per Box.

Line	22	24	27
Bright Black ..... Per great gross,	$1.90	$2.15	$2.50
Fancy Colors ..... " "	2.15	2.45	2.85

Fancy Colors are No. 77 Green, No. 73 Blue, No. 75 Medium Maroon, No. 78 Light Maroon, and No. 79 Russet.

One Gross per Box, Twelve Gross per Package.

CLOTH COVERED TUFTING BUTTON

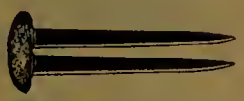
Line	22	24	28
Green, Blue, Brown ..... Per gro.,	$0.50	$0.60	$0.70
Drab or Maroon ..... "	.70	.80	.90
Whipcord ..... "	.60	.70	.80

One Gross per Box.

LEATHER COVERED TUFTING BUTTON

Line	22	24	28
No. 77 Green or No. 73 Blue.. Per gro.,	$0.60	$0.70	$0.80
No. 75 Med. or No. 78 Lt. Maroon "	.60	.70	.80
No. 66 Tan ..... "	.75	.85	.95

One Gross per Box.



CLOTH COVERED CLINCH BUTTON

22 Line, Green, Blue or Brown ..... Per gro., $0.60
22 Line, Drab or Maroon ..... " .75
22 Line, Whipcord ..... " .65

1¼ Inches Long.

One Gross per Box, Washers Included.

LEATHER COVERED CLINCH BUTTON

22 Line, No. 77 Green or No. 73 Blue ..... Per gro., $0.70
22 Line, No. 75 Med. or No. 78 Lt. Maroon.. " .70
22 Line, No. 66 Tan ..... " .85

1 and 1⅛ Inches Long.

One Gross per Box, Washers Included.

JAPANNED OR MILONITE CLINCH

Length, inches	¾	1	1¼
Bright Black, 22 line ..... Per gro.,	$0.40	$0.45	$0.50
No. 77—Green, 22 line ..... "	.50	.55	.60
No. 73—Blue, 22 line ..... "	.50	.....	.60
No. 78—Maroon, 22 line... "	.50	.....	.60
No. 79—Russet, 22 line... "	.50	.....	.60

One Gross per Box, Washers Included.

WASHERS

For Clinch Buttons

Flat, Paper ..... Per gro., $0.10
Swaged, Tin ..... " .15

One Gross per Box.

WORSTED BUTTON TUFT

No. 41—Button Tufts ..... Per gro., $1.25

Carried in Plain Green, Blue, Drab, or Maroon, also Green with Red Center.

One Gross per Box.

FRENCH HAND MADE TUFT

No. 410—French Hand Made Tufts ..... Per gro., $3.75

Carried in Plain Green, Blue, Drab and Maroon.

One Gross per Box.

RIVETS AND GROMMETS

COPPER RIVETS AND BURRS

No. 8—3/8, 1/2, 5/8, 3/4, 7/8, 1, 1 1/8, 1 1/4, 1 1/2 inches	Per lb.,	$0.75
No. 10—3/8, 1/2, 5/8, 3/4, 7/8, 1 inches	"	.81
No. 12—3/8, 1/2, 5/8, 3/4 inches	"	.87

One Pound per Paper.

TUBULAR RIVETS

No. 1—Japanned

Length, inches...	3-16	4-16	6-16	8-16	10-16
Per 1000	$1.90	$1.90	$2.10	$2.50	$2.90

1000 per Box.

PONY RIVETING MACHINE

For Tubular Rivets

Each $1.50

One per Box.

No. 241

No. 242

BRASS GROMMETS

Nos.	0	1	2	3	4
Size, inches	1/8	1/4	3/8	7/16	1/2
	Per Gross—				
No. 241—Plain Washer	$0.60	$0.75	$1.00	$1.50	$2.50
No. 242—Toothed Washer	.75	.90	1.20	1.80	3.00

One Gross per Box.

GROMMET INSERTING DIE

No. 0—1/8-inch, Style A	Per doz.,	$36.00
No. 1—1/4-inch, Style A	"	39.00
No. 2—3/8-inch, Style A	"	42.00
No. 3—7/16-inch, Style A	"	45.00
No. 4—1/2-inch, Style A	"	48.00

One per Box.

THREAD

Barbour's

Marshall's

Clark's

LINEN MACHINE THREAD

3-Cord, 2-Ounce Spools

Barbour's Dark Blue, W. Brown, Orange or Red.

No. 18	Per lb.,	$2.10
No. 20	"	2.18
No. 25	"	2.33
No. 30	"	2.63
No. 35	"	2.93
No. 40	"	3.30
No. 50	"	3.83
No. 60	"	4.35
No. 70	"	4.73
No. 80	"	5.10

1 lb. per Box, 6 lbs. per Package.

3-Cord, 8-Ounce Balls
(Cushion Thread)

No. 16—Dark Blue (Marshall's) ..... Per lb., $1.43

½ lb. per Ball, 3 lbs. per Package.

LINEN HAND THREAD

Cable Twist (6-Cord, 4-Ounce Balls)

No. 432—Dark Blue (Barbours)	Per lb.,	$2.85
No. 532—Dark Blue (Barbour's)	"	3.30
No. 632—Dark Blue (Barbour's)	"	3.75

2 lbs. per Box, 6 lbs. per Package.

Harness (1-Ounce Balls)

No. 10—Dark Blue (Barbour's)	Per lb.,	$1.73
No. 3—Dark Blue (Barbour's)	"	1.95
No. 12—Dark Blue (Barbour's)	"	2.25

1 lb. per Box, 4 lbs. per Package.

Shoe (2-Ounce Balls)

No. 10—Half Bleached (Barbour's)	Per lb.,	$1.58
No. 3—Half Bleached (Barbour's)	"	1.73
No. 12—Half Bleached (Barbour's)	"	2.10
No. 10—Half Bleached, Reliance (Marshall's)	"	1.02
No. 10—Half Bleached, Devonshire (Finlayson's)	"	1.28

1 lb. per Box, 4 lbs. per Package.

LINEN MACHINE OR HAND THREAD

Lockstitch, 1-lb. Tubes

3 to 10 Cord, Half Bleached (Barbour's)	Per lb.,	$1.65
3 to 10 Cord, Dark Blue (Barbour's)	"	1.73

1 lb. per Tube, 6 lbs. per Package.

COTTON MACHINE THREAD

Carriage, 500-yard Spools

No. A Coarse —Black or White (Clark's O.N.T.)	Per lb.,	$2.00
No. B Medium—Black or White (Clark's O.N.T.)	"	2.00
No. C Fine —Black or White (Clark's O.N.T.)	"	2.00

One Dozen Spools per Box.

CORTICELLI SPOOL SILK

	Per Spool.	Per lb.
Black, 1-ounce spools	$0.80	$9.00
Colors, 1-ounce spools	.90	10.00

Carried in Black, White, and Orange.

Stock Sizes—A, B, C, D, E, EE, F, FF, Fine to Coarse in order named.

12 Spools per 1-lb. Box.

	Per Spool.	Per Doz.
Black, 100-yard spools	$0.15	$1.50
Colors, 100-yard spools	.18	1.75

Carried in Green, Blue, Drab and Maroon, to match Curtain Silk and in Size A, this being the best adapted to general work.

1 Dozen Spools per Box.

TWINE, CORD AND WAX

TUFTING TWINE

No. 15 —Elm Flax .....Per lb., $0.75
No. 252—Mattress ..... " .65
No. 18 —B. C. Wrapping..... " .40
In one-half lb. Balls, six balls per Package.

SPRING TWINE

No. 4½—Regular, ½-lb. balls.....Per lb., $0.25
No. 6 —Heavy, 1-lb. balls..... " .25
250 lbs. per Bale.

JUTE SEAMING CORD

Jute Cord, 10-ply .....Per lb., $0.25
In Balls, 2½ to 3 lbs.

PAPER SEAMING CORD

Paper Cord .....Per lb., $0.20
In 5-lb tubes, and in reels of 55 to 70 lbs.

BEESWAX

California, Strictly Pure

Full Cakes, (17 to 20 lbs.).....Per lb., $0.75
Less than full Cakes..... " .85

SHOEMAKERS' WAX

African

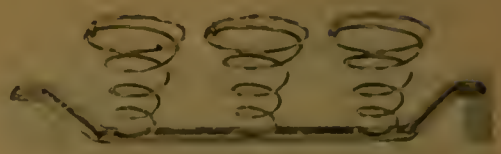
Pure African, Black.....Per doz., $0.25
Weight approximately 1-lb. per dozen.

CUSHION SPRINGS AND WOODS

CUSHION AND BACK SPRINGS

Cushion,	No. 10½ Wire, Double Knot, Japd....	Per gro.,	$5.00
Back,	No. 14 Wire, Double Knot, Japd....	"	3.00
Pivot,	No. 14 Wire, Coppered	"	6.00

Cushion Springs, one-half gross per bundle.
Back and Pivot Springs, one gross per bundle.



TWENTIETH CENTURY SPRING STRIPS

No. 1	—14 ins. long, 3 springs, 3 ins. high, Japd	Per 1[illegible]	[illegible]
No. 2	—15 ins. long, 3 springs, 3 ins. high, Japd	"	15.00
No. 3	—16 ins. long, 3 springs, 4 ins. high, Japd.	"	17.00
No. 4	—17 ins. long, 3 springs, 4 ins. high, Japd	"	17.00
No. 5	—19 ins. long, 3 springs, 4 ins. high, Japd.	"	17.00

Measure from center to center of nail holes.

STAR SPRING FRAME

12 to 15 inches wide by 18 to 23 inches long.....	Each,	$3.00
12 to 15 inches wide by 24 to 29 inches long.....	"	4.00
12 to 15 inches wide by 30 to 35 inches long.....	"	5.00
12 to 15 inches wide by 36 to 41 inches long.....	"	6.00
12 to 15 inches wide by 42 to 47 inches long.....	"	7.00

For Frames 16 to 19 inches wide add 33⅓ per cent.

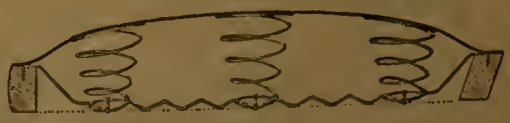
CHAMPION SPRING FRAME

Size, 12½x16½x4½ inches.....Each, $1.50

Cross Wire

Brace Wire

Illustrating Frame Complete



Cross Section of Frame

STAPLES AND HANFORD MATERIALS

Brace Wires, 60 and 72-inch strips.....Per 100 ft., $3.00
Cross Wires, 12, 12½, 13, 13½, 14, 14½, 15, 15½, 16, 16½, 17, 18, 19, 20, 21, 22 inches long.....Per 100 pcs., 7.50
Cushion Springs, No. 10½ wire, 3½ inches high.....Per dozen, .50

Beveled, for Back and Ends of Frame

Plain, for Front of Frame

CUSHION WOODS

Pine, Surfaced Four Sides

Beveled, for Back and Ends of Frame. Per 100 lineal ft. $5.00

Plain, for Front of Seat Frame.....Per 100 lineal ft. $3.50

STIFFENING MATERIALS

SINGLE BUCKRAM

No. 20—20-oz, 40-inch, Leather Finish.....Per yard, $0.20
No. 24—24-oz., 40-inch, Leather Finish..... " .24
30 yards per Roll.

DOUBLE BUCKRAM

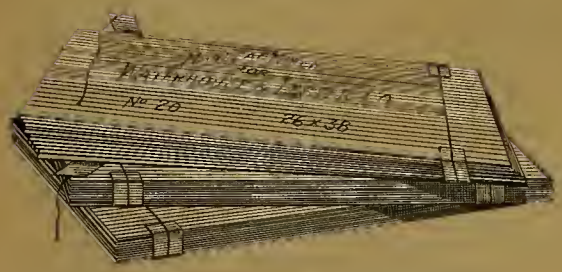
No. 2020—Heavy, 40-inch, Leather Finish....Per yard, $0.35
30 yards per Roll.

SCRIMS

Dundee Linen, 29 inches wide.....Per yard, $0.15
25 yards per Bolt.

BURLAP

Fine Quality, 40 inches wide.....Per yard, $0.15
100 yards per Bolt.



STRAWBOARD

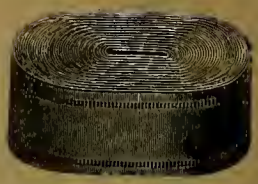
No. 20—26x38 inches.....Per Bdle., $2.50
20 sheets per Bundle of 50 lbs.
The size 26 x 38 inches cuts without waste, making two backs, each 13 inches high.

BACK STAY PAPER

6 inches wide.....Per lb, $0.15
6½ inches wide..... " .15
In Rolls of about 75 lbs.

STAR STAY WEBBING

Hemp, 1¾-inch wide .....Per piece, $0.75
17 to 18 yards per piece.



JEWELL STAY WEBBING

Hemp, 3 inches wide.....Per piece, $2.50
72 yards per piece.

FILLING MATERIALS

EXCELSIOR

Fine Quality	Per 100 lbs., $ 3.00
Fine Quality	Per ton, 50.00

About 110 lbs. per bale.

MOSS

XX —Double Ginned	Per lb.	$0.10
XXX —Double Ginned	"	.12
XXXX—Double Ginned, Black	"	.14

About 150 lbs. per bale.

CURLED HAIR

	Per lb.		Per lb.
No. 1—White Drawings	$0.80	No. 1—Sil. Gray Dr's	$0.60
No. 2—White Drawings	.75	No. 2—Sil. Gray Dr's	.55
No. 1—Black Drawings	.70	No. 2X—Gray Drawings	.50
No. 2—Black Drawings	.65	No. 1X—Gray Drawings	.45

No. 1—Mixed Drawings.....Per lb., $0.40
No. 2—Mixed Drawings .... " .35

50 lbs. per sack.

WADDING

	Yards. Per Bale.	Rolls Per Bale.	Weight Per Roll.	Per Roll.	Per Bale.
No. 432—180		15	4 lbs.	$1.00	$14.00
No. 532—144		12	5 lbs.	1.25	11.00
No. 632—120		10	6 lbs.	1.50	14.00

12 yards per Roll.

DRESSINGS, GLUE, ETC.

EAST BUFFALO TOP DRESSING

	Each.	Per Case. (1 doz.)
Half Pints	$0.30	$3.00
Pints	.55	5.40
Quarts	1.05	10.20
Half Gallons	1.90	18.60
Gallons	3.50	35.00

WEST'S ENAMEL TOP DRESSING

	Each.	Per Case. (1 doz.)
No. 1—Splits	$0.35	$3.60
No. 2—Half Pints	.45	4.20
No. 3—Pints	.80	8.00
No. 4—Quarts	1.15	11.50
No. 5—Half Gallons	2.15	21.60

For use on Tops, Dashes and all leather parts.

HARNESS DRESSING

	Each.	Per Case. (1 doz.)
Pints	$0.40	$4.15
Quarts	.75	7.50
Half Gallons	1.35	13.50
Gallons	2.15	21.60

EDGE INK

Quarts	Each,	$0.20
Quarts	Per Case (1 doz.)	2.00
Five Gallon Kegs	Each,	2.50
Ten Gallon Kegs	"	4.50

HARNESS OIL

	Each.	Per Case. (1 doz.)
No. 1—Pints	$0.30	$3.00
No. 2—Quarts	.45	4.50

LIQUID GLUE

Le Page's

	Each.	Per Doz.
Half Pints	$0.35	$3.25
Pints	.55	5.40
Quarts	.95	9.50
Half Gallons	1.85	18.50
Gallons	3.60	36.00

DRY GLUE

Santa Cruz

	Per lb.
Bulk	$0.40

TRIMMERS' PASTE

Day's Diamond Flour

	Per lb.
Half Barrels (125 lbs.)	$0.15
Less Quantities	.17½

On account of being dry, there is no danger of becoming spoiled or mouldy.

PREPARED PASTE

Palo Alto

	Each.
Kegs (about 65 lbs)	$2.00
Kegs (about 125 lbs.)	3.50
Kegs (about 225 lbs.)	5.00

BUCKLES

No. 50

No. 50—Barrel Roller Buckle, Japanned.

Size, ins	5/8	3/4	7/8	1	1 1/8	1 1/4	1 1/2	1 3/4
Per gro.	$1.40	$1.65	$2.00	$2.30	$2.60	$3.20	$3.80	$4.80
Gro. in box	1	1	1	1	1/2	1/2	1/2	1/4

No. 150

No. 150—Loop Roller Harness Buckle, Japanned.

Size, inches	5/8	3/4	7/8	1	1 1/8	1 1/4	1 1/2
Per gro.	$1.90	$2.50	$3.25	$3.70	$4.60	$5.50	$7.20
Gro. in box	1	1	1/2	1/2	1/2	1/4	1/4

No. 72

No. 72—"English" Wire Harness Buckle, Japanned.

Size, ins.	1/2	5/8	3/4	7/8	1	1 1/8	1 1/4	1 1/2
Per gro.	$1.10	$1.40	$1.80	$2.30	$2.90	$3.60	$4.40	$6.00
Gro. in box	1	1	1	1/2	1/2	1/2	1/4	1/4

No. 82

No. 82—"Sensible" Harness Buckle, Plain.

Size, inches	3/4	7/8	1.	1 1/2
Per gro., Japanned	$1.90	$2.50	$3.10	$6.30
Per gro., Brass Electro Plated	2.40	2.88	3.54	8.82
Gro. in box	1	1/2	1/2	1/4

No. 12

No. 12—Wire Bent Heel Harness Buckle.

Size, inches	1/2	5/8	3/4	7/8	1	1 1/4	1 1/2
Per gro., XC Plate	$1.30	$1.60	$2.00	$2.60	$3.60	$6.00	$7.30
Per gro., Nickeled	1.65	2.19	3.00	4.13	5.25	8.85	12.30
Gro. in box	1	1	1	1	1/2	1/4	1/4

No. 70

No. 70—"French" Wire Roller Buckle, Solid Brass.

Size, inches	3/4	7/8	1	1 1/4	1 1/2
Per gro.	$7.02	$9.48	$11.22	$17.70	$21.45
Gro. in box	1/2	1/2	1/2	1/4	1/4

No. 19

No. 19—Imitation Stitched Harness Buckle, Oroide Tongue.

Size, inches	1/2	5/8	3/4	7/8	1
Per gro., Imit. Rubber	$1.35	$1.80	$2.10	$2.70	$3.12
Gro. in box	1	1	1	1/2	1/2

No. 40

No. 40—Skate or Shoe Roller Buckle.

Size, inches	1/2	5/8	3/4
Per gro., Japanned	$1.25	$1.50	$1.75
Per gro., Brass Electro Plated	3.00	3.30	4.20
Gross in box	2	1	1

RINGS, SNAPS AND LOOPS

No. 17

No. 13

No. 12

No. 17—Malleable Harness Ring, Japanned.

Opening, inches	5/8	3/4	7/8	1	1 1/4
Per gross	$1.08	$1.16	$1.36	$1.72	$2.28
Gro. in box	1	1	1	1	½

No. 12—Solid Brass Harness Ring, Polished.

Opening, inches	3/4	7/8	1
Wire Gauge No.	6	5	5
Per gross	$4.17	$5.04	$6.21
Gross in box	1	1	1

No. 13—Malleable Breeching Ring, Japanned.

Opening, inches	1½	2
Per gross	$3.60	$5.40
Gross in box	½	¼

No. 1914

No. 1914—Baby Loop Eye Snap, XC Plate.

For Strap, inches	½	5/8	3/4
Per gross	$2.70	$2.70	$3.00
Gross in box	1	1	1

No. 70

No. 70—Polo Loop Eye Snap, XC Plate.

For Strap, inches	5/8	3/4	7/8
Per gross	$5.04	$5.04	$5.04
Gross in box	½	½	½

No. 1284

No. 1284—Snap Loop, Polished Brass.

Size Eye, inside measurement, inches	5/8
Length, over all, inches	2¼
Per dozen	$4.00

No. 642

No. 642—Safety Loop.

For Strap, inches	1	1¼
Per dozen, Japanned	$0.40	$0.50
Per dozen, Brass Electro Plated	.60	.75

No. 6400—Malleable Check Loops.

No. 6400—1 inch

For Strap, inches	1	1 1/8	1¼	1½	1¾
Per doz., Japanned	$0.15	$0.15	$0.20	$0.25	$0.30
Per doz., Brass Electro	.60	....	.70	.80	....

No. 6400—1½ inch

TRIMMERS' TOOLS AND MACHINES

TRIMMERS' HAND TOOLS

TRIMMERS' MACHINES

GENERAL INFORMATION

Subdivision of "Trimmers' Tools and Machines"

PAD AWLS are used for the purpose of holding the material, on which work is being performed, in place on the bench.

AWL BLADES are used in AWL HAFTS; a PATENT AWL HAFT for more securely locking the awl blade in the haft being sometimes used.

HARNESS AWLS are of triangular cross section, and are used for the purpose of perforating for access of the needle.

STITCHING AWL BLADES are used for making needle holes in medium weight material.

CLAW TOOLS are used for the purpose of withdrawing nails and tacks.

TICKLERS are used for pressing down the edges of strips of leather in making a welt or binding where a fullness is desired, and may also be used as a creaser.

CREASERS are used for the purpose of finishing or creasing the edges of leather.

EDGE TOOLS are used for the purpose of leveling down and smoothing up edges of leather, and also for the purpose of making grooves in leather.

PATENT LEATHER TOOLS.—Used the same as edge tools. Used particularly on patent leather.

PRICKING WHEELS are used for the purpose of running stitch mark lines.

SQUARE POINT KNIVES are used in cutting leather on the bench.

CAP KNIVES are used where it is necessary for the point of the knife to project through the leather.

ROUND KNIVES and HEAD KNIVES are used where greater facility in cutting is desired, being available for a variety of purposes, such as cutting irregular lines, and thinning and bevcling for splices. Where short cuts are to be made, same can be accomplished by imparting a rolling motion to the knife.

DRAW GAUGES are used where strips of leather with parallel edges are to be cut.

STRAP SHAVES are used for finishing edges and thinning strips of leather.

WASHER CUTTERS are nsed in making rubber, fibre or leather washers, being equipped with and without marking gauges.

REVOLVING and ROUND PUNCHES are used for the purpose of cutting round holes in leather for various purposes among which are: for buckle straps, for insertion of grommets, curtain fastener eyelets, etc.

PRICK PUNCHES are used for the purpose of making a starting hole for screws, carriage knobs, curtain fasteners, etc.

The BAG PUNCH makes a long parallel sided hole for the insertion of buckles, etc.

The TRACE PUNCH makes a long hole broader at one end than at the other. Usually used for punching holes in traces for the reception of whiffletree tips, hooks or sword end singletrees.

SLICKERS are used for the purpose of smoothing down work when pasting has been done.

COMPASSES are used for the purpose of running parallel lines on leather as a guide for stitching or cutting, as well as for marking out curved lines.

SADDLERS PLYERS are used for the purpose of drawing or stretching leather when pulling into place in various classes of work.

SADDLER'S PINCERS perform the same work as Saddler's Plyers, being so shaped as to enable leverage to be exerted.

HARNESS NEEDLES are used for stiching heavy leather, dashes, strap work, etc., having a blunt or dull point.

GLOVERS' NEEDLES are used in hand sewing and light fabric work, being sharp pointed and three-cornered.

COLLAR NEEDLES are used principally in harness work in manufacturing horse collars, etc., as the name indicates.

TUFTING NEEDLES are used for the purpose of fastening tufting buttons or tufts to cushions, backs and other upholstery, the double-pointed needle being used for the purpose of avoiding reversing the needle in returning.

The PATENT BUTTON NEEDLE is used in repair work in fastening tufting buttons on seat backs and other upholstery, where it is desired to avoid removing the upholstery covering, for the purpose of drawing the tufting twine through. It is so arranged that a short piece of looped wire, (Pat. Fastener), to which the tufting twine is attached, may be inserted in the eye of the needle, and driven into the upholstery drawing the tufting twine with it. Upon withdrawing the needle, this wire loop remains in the upholstery, holding in place the tufting twine, to the other or outside end of which the tufting button is fastened, and then drawn into place.

MALLEABLE SCREW CLAMPS and TRIMMERS' CLIPS are used for various clamping purposes where it is necessary to hold leather and other materials in place while fastening, shaping, etc.

CREASING MACHINES perform the work of creasing where considerable quantities of creasing work is to be done.

SPLITTING MACHINES are for the purpose of thinning or splitting leather horizontally.

BUTTON MACHINES are used in making up special buttons or tacks to match up any color cloth, etc. A "line" equals 1-40-inch.

RIVETING MACHINES are used for riveting leather or other material with Tubular Rivets.

ROUNDERS are used for the purpose of shaping leather straps, the opposite edges of which have been stitched together, thus forming a circular or round strap.

STITCHING HORSES combine the features of a clamp or vise for the purpose of holding leather while performing hand stitching, and a seat for the operator.

Trimmers' SEWING MACHINES are obtainable in three general types, a light machine for light and ordinary work and for use in small shops, a heavier or "improved" machine for use in connection with heavier work or as an auxiliary to the lighter machine in larger shops, and the "Dash" Sewing Machine, on which the machine foot rises higher for the admission of thick and heavy work, and is otherwise adapted to sew Dashes, Fenders and the like.

HAIR PICKERS are used for picking hair and moss into fine particles so that same can be easily used as filling material. They are adjustable for the purpose of picking fine and coarse filling material as desired.

TRIMMERS' AWLS

No. 1 PAD AWL

No. 1—Pad Awl, Octagon Ebony Handle.....Per doz., $6.00

No. 2 PAD AWL

No. 2—Pad and Seat Awl, Rosewood Handle.....Per doz., $4.75

No. 3 PAD AWL

No. 3—Pad Awl, Rosewood Handle, Shouldered and Riveted.....Per doz., $5.50

No. 9 PAD AWL

No. 9—"Extra" Pad Awl, Rosewood Handle.....Per doz., $4.50

SADDLERS' HARNESS AWL BLADES

No. 43, length 1¾	inches	Per gro.,	$2.75
No. 44, length 2	inches	"	2.75
No. 45, length 2¼	inches	"	2.75
No. 46, length 2½	inches	"	2.75
No. 47, length 2⅝	inches	"	2.75
No. 48, length 2¾	inches	"	2.75
No. 49, length 2⅞	inches	"	3.00
No. 50, length 3	inches	"	3.10
No. 51, length 3⅛	inches	"	3.25
No. 52, length 3¼	inches	"	3.65

One Gross per Package.

SADDLERS' STITCHING AWL BLADES

No. 53, length 1¾	inches	Per gro.,	$2.75
No. 54, length 2	inches	"	2.75
No. 55, length 2⅛	inches	"	2.75
No. 56, length 2¼	inches	"	2.75
No. 57, length 2½	inches	"	2.75
No. 58, length 2¾	inches	"	2.75
No. 59, length 3	inches	"	3.10

One Gross per Package.

No. 140½ AWL HAFT

No. 140½—Flat Awl Haft, Im. Ebony.....Per gro., $8.50

No. 141½ AWL HAFT

No. 141½—Oval Awl Haft, Black.....Per gro., $8.25

MISCELLANEOUS HANDLED TOOLS

PATENT AWL HAFT

No. 146—Patent Awl Haft.....Per doz., $5.00
Rosewood Handle.

No. 122 CLAW TOOL

No. 122—Claw Tool, Best Steel.....Per doz., $4.50
No. 123—Claw Tool, Ext. Hvy. Rvtd. Handle " 8.00
Rosewood Handle.

No. 124 CLAW TOOL

No. 124—Claw Tool, Octagon, Riveted.....Per doz., $6.00
Rosewood Handle.

SINGLE TICKLER

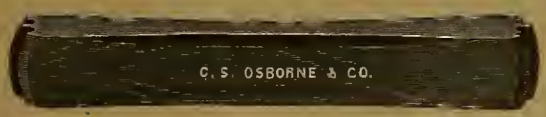
No. 12—Single Tickler, Nos. 1, 2, 3, and 4...Per doz., $2.88
No. 13—Single Tickler, Octagon, Heavy, Nos.
0, 1, 2, 3 and 4..... " 7.00
Rosewood Handle.

SINGLE EDGE CREASER

Per doz.
No. 21 —Single Edge Creaser, Nos. 1, 2, 3, 4 and 5..$4.75
No. 21½—Double Edge Creaser, Nos. 1, 2, 3, 4 and 5.. 4.75
Rosewood Handle.

IRON END CREASER

Per doz.
No. 23—Iron End Creaser, to crease 4 sizes.....$10.00
Rosewood Handle.



No. 20S—WOOD CREASER

No. 20S—Wood Creaser, Single, Lignumvitae.Per doz., $3.00
No. 20D—Wood Creaser, Double, Lignumvitae " 4.00

COMMON EDGE TOOL

No. 125—Common Edge Tool, Asstd Sizes....Per doz., $2.00
Rosewood Handle.

BEST EDGE TOOL

No. 126—Best Edge Tool, Asstd Sizes.....Per doz., $6.00
Rosewood Handle.

ENGLISH EDGE TOOL

No. 129—English Edge Tool, Asstd Sizes....Per doz., $6.00
Rosewood Handle.

MISCELLANEOUS HANDLED TOOLS

FRENCH EDGE TOOL

No. 130—French Edge Tool, 1-32 to 1-2 inch..Per doz., $6.00

Rosewood Handle.

PATENT LEATHER TOOL

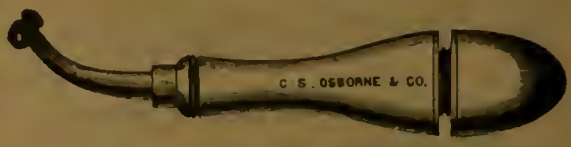
No. 134—Patent Leather Tool, Asstd Sizes ..Per doz., $6.00

Rosewood Handle.

STATIONARY PRICKING WHEEL

No. 35—Stationary Pricking Wheel.....Per doz., $6.50

Rosewood Handle.



PRICKING CARRIAGE

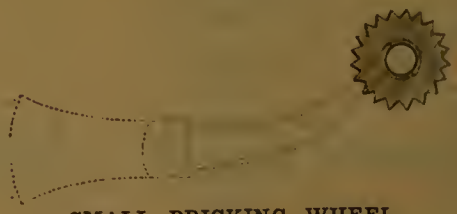
No. 36—Box Handle Pricking Carriage.....Per doz., $13.00

Rosewood Handle.

STATIONARY FINISHING WHEEL

No. 40—Stationary Finishing Wheel, (Overstitch), Octagon Carriage .....Per doz., $12.00

Rosewood Handle.



SMALL PRICKING WHEEL

No. 37—Small Pricking Wheel, to fit No. 36 Box Carriage .....Per doz., $3.50

No. 609—PERFECT HANDLE SCREW DRIVER

Length, ins.	4	5	6	7	8	10	12
Per dozen....	$4.25	$5.00	$6.00	$7.00	$8.00	$10.00	$12.00

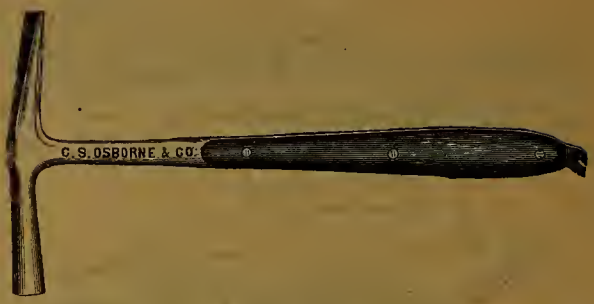
No. 66—RATCHET SCREW DRIVER

Length, ins.	2	3	4	5	6	8	10
Per dozen.....	$5.00	$6.00	$6.50	$7.25	$8.00	$9.00	$10.00

TRIMMERS' HAMMERS

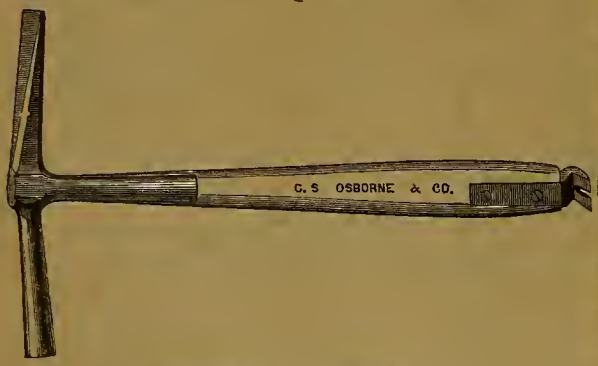
No. 58—FRENCH TRIMMERS' HAMMER

No. 58—French Trimmers Hammer, oval rosewood handle .....Per doz., $28.00
Weight each, 1 lb., including handle.



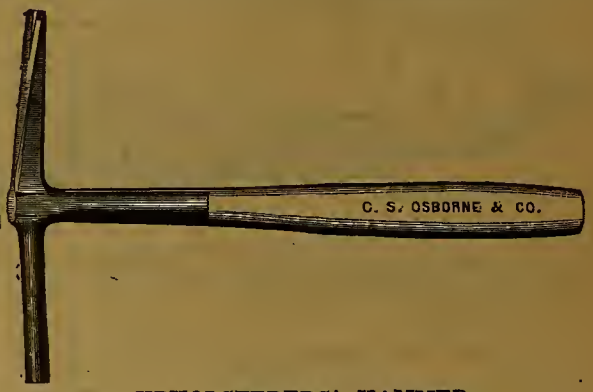
No. 58½—FRENCH TRIMMERS' HAMMER

No. 58½—Light French Trimmers Hammer, oval rosewood handle .....Per doz., $28.00
Weight each, ¾ lb., including handle.



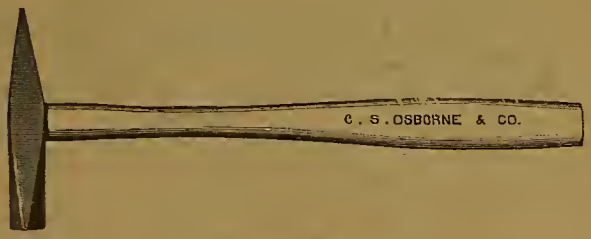
TRIMMERS' HAMMER

Per doz.
No. 59—Trimmers Hammer, white hickory handle....$18.00
Extra Claws 7.20
Weight each, ⅝ lh., including handle.



UPHOLSTERERS' HAMMER

Per Doz.
No. 60—Upholsterers Hammer, white hickory handle..$13.00
Weight each, ½ lb., including handle.



RIVETING HAMMER

No. 57—Riveting Hammer, polished steel, white hickory hdle.
Size 2 (weight, without hdle., 9 ozs. each)..Per doz., $7.00
Size 3 (weight, without hdle., 12 ozs. each).. " 7.50
Size 5 (weight, without hdle., 18 ozs. each).. " 8.00

FIBRE HEAD MALLET

No. 20—Diameter 2 inches, weight 1½ lbs..Per doz., $ 9.00
No. 25—Diameter 2½ inches, weight 1¾ lbs. " 10.50
No. 30—Diameter 3 inches, weight 2¼ lbs.. " 12.00
Vulcanized Fibre Head, Malleable Bands, Handle Screwed In.

TRIMMERS' KNIVES

No. 76—SQUARE POINT KNIFE

Per Doz.

No. 76—Square Point Knife, round rosewood handle..$3.00
No. 76—Square Point Knife, white handle..... 2.00

No. 77—SQUARE POINT KNIFE

Per Doz.

No. 77—Square Point Knife, flat rosewood handle riveted..... $6.00

No. 79—CAP KNIFE

Per Doz.

No. 79—Cap Knife, round rosewood handle.....$3.00

No. 80—CAP KNIFE

Per Doz.

No. 80—Cap Knife, flat rosewood handle, riveted.....$6.00

ROUND KNIFE

Per Doz.

No. 70—Round Knife, oval rosewood handle, 5-inch..$16.50
No. 70—Round Knife, oval rosewood handle, 6-inch.. 19.00
No. 70—Round Knife, oval rosewood handle, 6½-inch 22.00

HEAD KNIFE

Per Doz.

No. 71—Large Head Knife, round rosewood handle, 4½ inch.....$ 8.00
No. 71—Large Head Knife, oval rosewood handle, 4½ inch..... 10.00

TRIMMERS' KNIVES

No. 75—HEAD KNIFE

No. 75—Philadelphia Pattern Head Knife, length 4⅝ inches .....Per doz., $10.00
Oval Rosewood Handle.

No. 51—DRAW GAUGE

No. 51 —Brass Draw Gauge, improved.....Per doz., $28.00
No. 51G—Brass Draw Gauge, impd, with guard " 38.00
Rosewood Handle.

No. 51½—DRAW GAUGE

Per Doz.
No. 51½—Pat. Draw Gauge, improved, 4-inch slide..$16.00
No. 51½—Pat. Draw Gauge, improved, 6-inch slide.. 20.50
Hollow Handle, Black Iron.

No. 051½—DRAW GAUGE

Per Doz.
No. 051½—Patent Hollow Handle Draw Gauge, usual.$14.00
Extra Blades for all Draw Gauges..... 1.25
Black Iron Handle.

STEARNS' STRAP SHAVE

No. 4—Stearns Strap Shave, 2⅛-inch cutter....Each, $0.35
Iron Handle.

CINCINNATI STRAP SHAVE

No. 7—Cincinnati Strap Shave 2⅜-in. solid knife. Each, $1.00
Iron Handle.

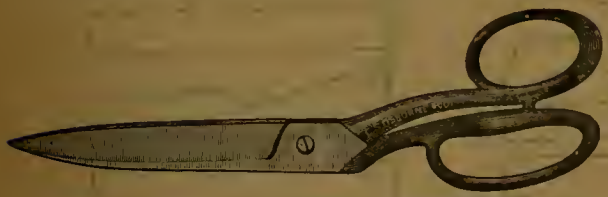
CUTTERS AND PUNCHES

DOUBLE WASHER CUTTER

No. 45—Double Washer Cutter.....Per doz., $23.00
Extra Blades ..... " 2.40

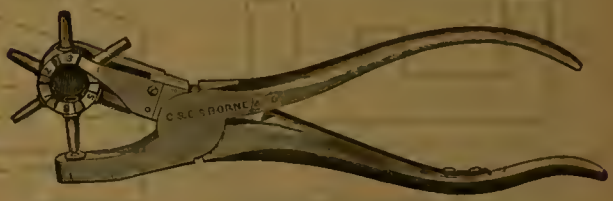
COMMON WASHER CUTTER

No. 350—Common Washer Cutter .....Per doz., $9.00



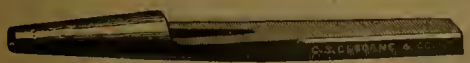
BENT TRIMMERS' SHEARS

	Per Doz.
No. 164—Bent Trimmers Shears, 10-inch	$16.75
No. 164—Bent Trimmers Shears, 12-inch	22.00



REVOLVING PUNCH

	Per Doz.
No. 155—Revolving Punch, side spring, 4 tube, steel	$20.00
No. 155—Revolving Punch, side spring, 6 tube, steel	21.00
Extra Screw Tubes for above	2.50



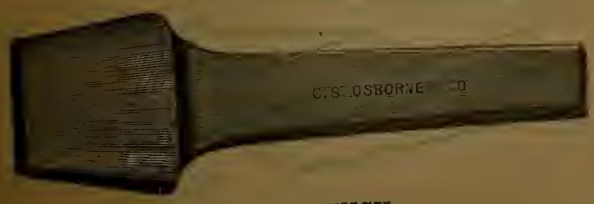
No. 147—ROUND PUNCH

No. 418—PRICK PUNCH

No. 147—Round Punch, Nos. 1 to 6.....Per doz., $3.00
No. 147—Round Punch, Nos. 7 to 10..... " 3.50
No. 418—Prick Punch ..... " 1.00

No. 148 ROUND PUNCH

No. 148—Round Punch, large, ⅝-inch hole.....Each, $1.15
No. 148—Round Punch, large, ¾-inch hole..... " 1.25



BAG PUNCH

No. 151—Bag Punch, ¼ to 1 -inch hole...Per doz., $11.00
No. 151—Bag Punch, 1⅛ to 1½-inch hole... " 15.00

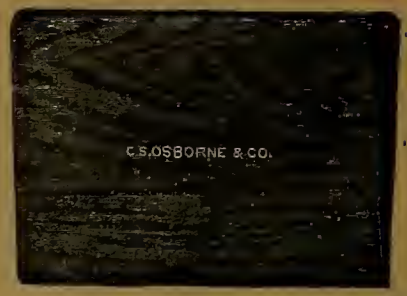
TRACE PUNCH

No. 152—Trace Punch, ⅝ to 1½-inch hole..Per doz., $15.00

MISCELLANEOUS TRIMMERS' TOOLS

GLASS SLICKER

No. 167—Glass Slicker, rosewood handle.....Per doz., $9.50
Length 5 Inches.



LIGNUMVITAE SLICKER

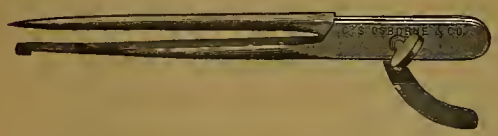
No. 168—Lignumvitae Slicker.....Per doz., $6.25
Length 5¼ inches.

No. 26—SADDLERS' STEEL COMPASS

No. 26—Saddlers' Steel Compass, 6-inch.....Per doz., $8.00
No. 26—Saddlers' Steel Compass, 8-inch..... " 9.00

No. 27—SADDLERS' COMPASS

No. 27—Saddlers' Steel Compass, 6-inch, with wing and set screw.....Per doz., $13.00



No. 29—PATENT LEATHER COMPASS

Per Doz.
No. 29—Patent Leather Compass, 5½-inch.....$12.00

No.30½—PATENT LEATHER COMPASS

Per Doz.
No. 30½—Pat. Lea. Compass, 6-in., 4 points with each $24.00
Extra Points and Scratchers 1.25

SADDLERS' PLYERS

No. 98—Saddlers Steel Plyers, 6-inch.....Per doz., $7.00

SADDLERS' PINCERS

No. 104—Saddlers' Pincers, best, 8-inch....Per doz., $18.00

MISCELLANEOUS TRIMMERS' TOOLS

No. 96—CUTTING NIPPERS

Per Doz.

No. 96—Cutting Nippers, ex. hvy., with set screw, 8-in. $34.00

No. 96½—SINGLE JOINT CUTTING NIPPERS

Per Doz.

No. 96½—Single Joint Cutting Nippers, all steel, 8 in. $30.00

No. 120—RIVET SET

No. 120—Rivet Set, Nos. 00 to 4.....Per doz., $9.00
No. 120—Rivet Set, Nos. 5 to 12..... " 7.00

GROMMET INSERTING DIE

No. 0—$\frac{3}{16}$-inch, Style A..... Per doz., $36.00
No. 1—$\frac{1}{4}$-inch, Style A..... " 39.00
No. 2—$\frac{5}{16}$-inch, Style A..... " 42.00
No. 3—$\frac{7}{16}$-inch, Style A..... " 45.00
No. 4—$\frac{1}{2}$-inch, Style A..... " 48.00

SCREW KNOB WRENCH

Screw Knob Wrench .....Per doz., $3.00
Used for putting on Carriage Knobs; avoids disfiguring.

KNOB EYELET PUNCH

Four Prong .....Per doz., $6.00
Six Prong ..... " $6.00
Cuts Hole for inserting Eyelets.

TOP PROP NUT AND COLLAR WRENCH

No. 330—Japanned .....Per doz., $3.00
Tapering Slot obviates adjustment.

No. 117—STUFFER

No. 117—Stuffer, rosewood handle.....Per doz., $12.00
Extra Cast Steel Blade, 12 inches long..... " 8.00

No. 160—SADDLERS RULE

No. 160—Saddlers' Rule, best, 3 feet.....Per doz., $8.00
No. 160—Saddlers' Rule, brass bound, 3 feet. " 32.00

STEEL POCKET TAPE

No. 145—60 inches .....Per doz., $3.50

MISCELLANEOUS TRIMMERS' TOOLS

AUXILIARY TOOLS FOR TRIMMERS*

Hand Saws, D8, 26-inch	Per doz.,	Screw Driver Bits, Small, Medium and Large	Per doz.,
Hack Saw Frames, Japanned, 8-inch blade	"	Bolt Clippers, No. 1	Each,
Hack Saw Blades, 8-inch	"	French Universal Plyers, 7-inch	Per doz.,
Socket Firmer Chisels, assorted, ½, ⅝, ¾-in	"	Coe's Wrenches, 8-inch	"
Cold Chisels, ⅝-inch	"	Coe's Wrenches, 12-inch	"
Coach Makers' Draw Knives, 1¼x10 inches	"	Elgin Wrenches	"
Oil Stones, unmounted	Each,	Solid Forged Wrenches	Per set,
Carborundum Knife Strops	"	Solid Punches, 4-32-inch point	Per doz.,
Ratchet Braces, 12-inch	Per doz.,	Flat Bastard Files, 14-inch	"
Syracuse Bits, assorted 3/16 to ½ inch	"	Slim Taper Files, 6-inch	"
Bit Stock Drills, No. 14A Set	"	Wood Rasps, 14-inch	"
Bit Brace Taps, Dies and Holders	"	Adze Eye Nail Hammers	"
Wood Countersinks, Snail, No. 10	"	Try Squares, 6-inch	"
Bit Brace Taper Reamers	"	Pocket Levels, No. 40	Each,

*We list above an assortment of tools, all of which are frequently or occasionally required in a well-equipped Trimming Shop.

TRIMMERS' NEEDLES

HARNESS NEEDLES

Egg Eye

No. 000	—Harness Needles.....Per paper,		$0.25
No. 00	—Harness Needles.....	"	.23
No. 0	—Harness Needles.....	"	.21
Nos. 1 to 6	—Harness Needles.....	"	.20

25 per Paper.

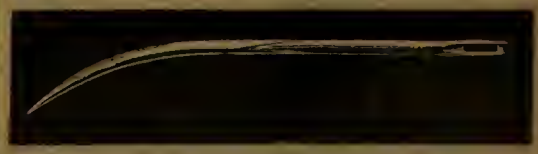
GLOVERS' NEEDLES

Egg Eye

No. 000	—Glovers' Needles.....Per paper,		$0.35
No. 00	—Glovers' Needles.....	"	.33
No. 0	—Glovers' Needles.....	"	.31
Nos. 1 to 6	—Glovers' Needles.....	"	.30

No. 92½—COLLAR NEEDLE

No. 92½—Collar Needle, half-moon.....Per doz., $2.00



No. 92—COLLAR NEEDLE

No. 92—Collar Needle.....Per doz., $2.00

No. 97—TUFTING NEEDLE

No. 97—Tufting Needle, 6 to 16 inches long...Per doz., $2.00

No. 97½—TUFTING NEEDLE

No. 97½—Tufting Needle, 6 to 16 inches long.Per doz., $2.00

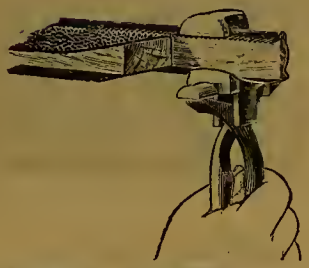
PATENT BUTTON NEEDLE

Patent Button Needle, extreme length 12 inches	Each,	$1.50
Fasteners for Patent Button Needle	Per gross,	.75

TRIMMERS' CLAMPS AND VISES

MALLEABLE SCREW CLAMPS

Size, inches	2½	3	4	6
Per dozen	$2.60	$3.00	$4.20	$6.50

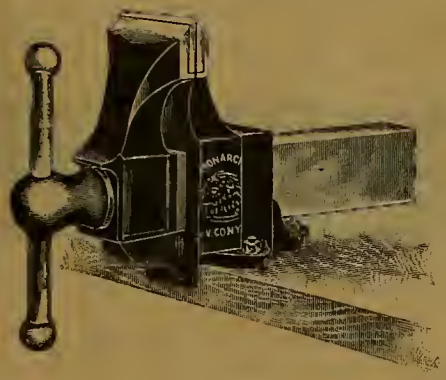


VALANCE CLAMPING TOOL

Nickel Plated.....Each, $2.50
Used for applying Metal Valances.

TRIMMERS' CLIP

Small Size.....Per doz., $1.25
Large Size..... " 1.50
For holding leather on frame while stitching.



No. 229—STATIONARY BOTTOM VISE

"Monarch"

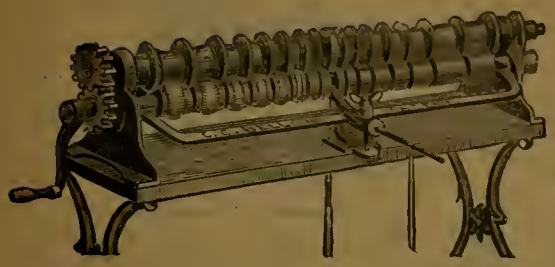
No. 229—Monarch, 4½ inch Jaws, opens 9 ins....Each, $9.50
Weight 48 lbs.

No. 59—STATIONARY BOTTOM VISE

"Bull Dog"

No. 59—Prentiss, 4¼-inch Jaws, opens 9 ins.....Each, $9.50
Weight 48 lbs.

TRIMMERS' MACHINES



CREASING MACHINE

Bellows Creasing Machine, Wood Bottom Roll...Each, $28.00
Creases ½-inch to 1½ inches, flat and raised.
Extra Creasing Rolls, top and bottom, iron....Per pair, $3.00
For Shipment from Factory Only.

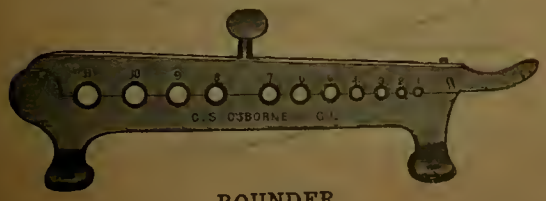
SPLITTING MACHINE

No. 171—Chase Splitting Knife, 8-in. blade....Each, $10.00
No. 171—Chase Splitting Knife, 10-in. blade.... " 12.00
Extra Blades: 8-inch, $1 50; 10-inch, $1 70.

DEFIANCE BUTTON MACHINE

For Covering Buttons and Tacks

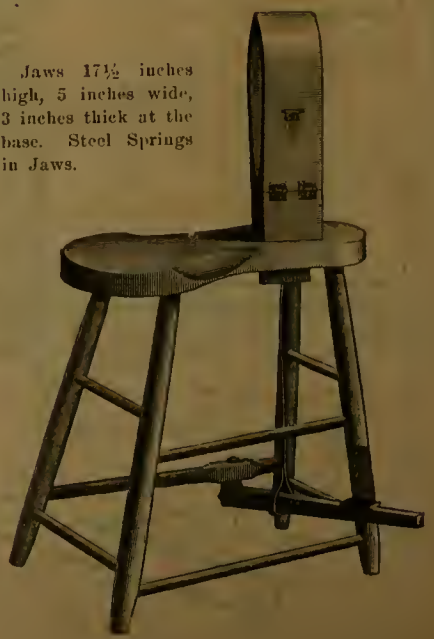
Defiance Button Machine, with one cutting Die, 22, 24 or 28 line with 5 gross of Loop Button Moulds to match.....Each, $15.00
Tack Cutting Dies, 14 or 16 line..... " 3.50
Button Cutting Dies, 22, 24 or 28 line..... " 3.50
Tack Moulds, 14 line.....Per gro., .40
Tack Moulds, 16 line..... " .45
Button Moulds (Loop) 22 line..... " .50
Button Moulds (Loop) 24 line..... " .60
Button Moulds (Loop) 28 line..... " .70
A "line" equals 1/40 inch.



ROUNDER

No. 110—Rounder, 11 holes.....Per doz., $60.00

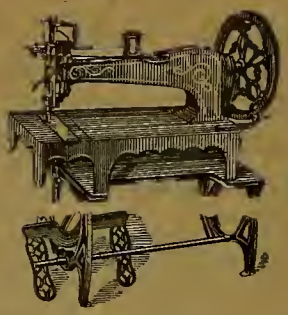
Jaws 17½ inches high, 5 inches wide, 3 inches thick at the base. Steel Springs in Jaws.



WOOD JAW STITCHING HORSE

No. 170R—Wood Jaw Stitching Horse.....Each, $5.50

TRIMMERS' MACHINES



No. 300—MANUFACTURING MACHINE

Foot Power, Regular Treadle.....Each, $100.00

This is a lock-stitch machine having reciprocating shuttle; simple, strong and efficient, and especially designed for and extensively used by Carriage Trimmers and Harness Makers.

Can be operated either by foot or mechanical power. The balance-wheel is 13 inches in diameter, insuring ease of operation and steadiness of motion.

The bed is 24 inches long, with 16 inches of clear space from the needle to base of arm.

Provided with Vibrating Presser which conforms to the movement and varying thickness of the material so that the top and bottom plies are evenly fed.

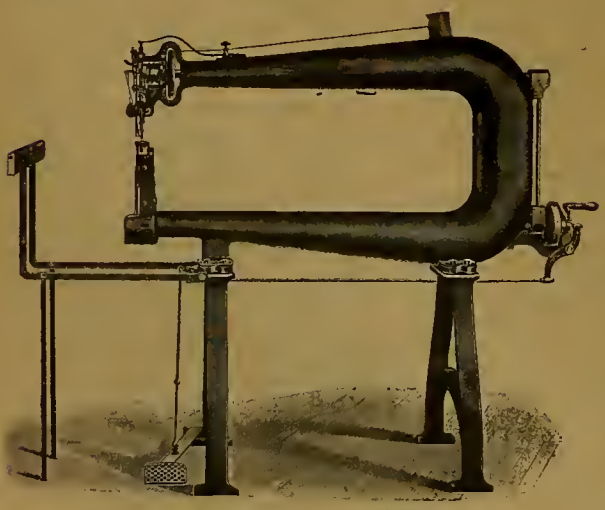
No. 710—MANUFACTURING MACHINE

Foot Power, Rotary Treadle.....Each, $150.00

This machine is provided with large long-beak shuttle and powerful mechanism for the strong lock-stitching of heavy fabrics of all kinds; it has sixteen inches of clear space from needle to base of arm.

The rotary treadle enables the operator to stop or start the machine without touching the balance-wheel and to run at high speed without great exertion. The balance-wheel carries pulleys for two changes of speed.

This machine is adapted to Carriage Trimming, including welting and edge cording for heavy cushions.



No. 671—DASH STITCHING MACHINE

Hand or Machine Power.....Each, $500.00

This machine is a large and heavy machine, having a space of fifty inches from the needle to the inside of the vertical portion of the arm, the needle and throat-plate being at a convenient height for manipulating large dashes and fenders, being 10½ inches above the bed of the machine.

The length of machine is 6 feet 4 inches, over all; the height from floor to throat-plate is 4 feet 1¾ inches.

The Driving Mechanism is arranged so that the machine can be driven either by mechanical power or by hand, as desired, the foot-treadle being used to start and stop the stitching mechanism in either case.

EMPIRE HAIR PICKER

Hair and Moss Pickers.....Each, $50.00

Length 4¼ feet, width 18 inches, height 44 inches, cylinder 13x20 inches, feed trough 16x22 inches, frame timber 2½x3½ inches, teeth in cylinder 120, teeth in huckle head 21.

Frame: Hardwood, securely bolted. Bearings: Adjustable, and run in Babbit Metal. Gearing housed (on opposite side from handle). Teeth, steel (inserted in plates). Feed roller is sanded, which greatly increases draft, and is equipped with side guards, which prevent materials winding around journals.

SUBDIVISION

OF

SUNDRY SUPPLIES

COACH PAINTERS' SUPPLIES,

AXLE WASHERS,

LUBRICANTS,

PLATED HUB BANDS,

MISCELLANEOUS

GENERAL INFORMATION

Subdivision of "Sundry Supplies"

VEHICLE PAINTING.—The process of vehicle painting involves a considerably greater amount of work than is popularly realized.

The amount of work performed upon the various classes of vehicles depends, of course, on the grade and price of the vehicle, the time required for completion varying from a few days to several weeks.

The following specifications of average jobs of vehicle painting may prove of assistance.

SPECIFICATIONS FOR FINISHING BODY.

First. Burn off old paint, if necessary, and sand thoroughly to a smooth surface. If burning off is unnecessary, work should be thoroughly sanded down and bare spots touched up with White Lead, thinned with Turpentine and small amount of Japan Dryer.

On New Bodies apply one coat Priming, allowing forty-eight hours for drying.

Second. Apply one coat of Pure White Lead, thinned with Turpentine. This coat may be omitted on new work.

Third. Putty all holes with hard drying putty.

Fourth. Apply one coat of Carriage Body Sealer over the surface with a broad knife, allowing twenty-four hours for drying.

Fifth. Sand-paper to smooth surface and brush on one coat of Reducible Roughstuff, allowing twenty-four hours for drying. If an extra fine job is desired, two or more coats of Roughstuff can be applied, although one coat over the Body Sealer gives an excellent surface.

Sixth. Apply one coat of.....Color for ground coat.

Seventh. Apply one coat of.....Color.

Eighth. Apply one coat of.....Color, mixed with one of the Rubbing Varnishes herein listed.

Ninth. Apply transfers, striping or decoration as required.

Tenth. Apply one or two coats, as desired, Quick Rubbing Varnish (two days) if hurried job is desired, or Rubbing Body Varnish (three days) if sufficient time can be allowed. If Color Coats are of light shade, substitute Pale Rubbing for the Quick Rubbing or Rubbing Body.

Eleventh. After standing required time, rub to a smooth surface and apply one coat of Palest Durable Body Varnish.

This system is suited to every grade of work, from wagon to brougham. Nobody questions the value of it. The old-fashioned method of priming, filling and roughstuff made with Lead and Oil is not only extravagant as to the time it requires, but it requires more careful handling, which is another way of saying that the result is less sure.

The Carriage Body Sealer and Roughstuff gives a surface that cannot be had with any other known method.

The Varnish will stand out full and strong and will not fade or die by sinking into the under-coats, as is often the case under the old Lead and Oil system.

SPECIFICATIONS FOR FINISHING GEAR.

First. Clean thoroughly and remove all grease from axles and hubs with benzine. Remove all rough paint and sand-paper down to a smooth surface and touch up bare spots with White Lead, thinned with Turpentine and small amount of Coach Makers' Japan.

For New Gears, the wood-work should have a light coat of Priming before going to the smith-shop. After the job is ironed, sand-paper thoroughly, being careful to remove all dirt and grease; then apply a second coat of Priming over wood and iron alike. After two or three days for drying, sand-paper this coat thoroughly.

Second. Apply one coat of Pure White Lead, thinned with Turpentine, mixed with a little Indian Red ground in Japan (or other ground color suitable for shade of color to be used), and sand-paper down to a smooth surface.

Third. Apply one coat of ..... Color for ground coat.

Fourth. Apply one coat of.....Color, mixed with one of the Rubbing Varnishes herein listed.

Fifth. Apply one coat of Hard Drying Carriage Varnish.

Note. All Varnishes should be applied just as they are received, without thinning or reducing, and, as nearly as possible, at a temperament of seventy degrees Fahrenheit.

Where it is desired to omit the application of Coach Colors, "Color Undercoats" may be substituted for the usual transparent undercoats, but the range of colors which may be thus obtained is naturally greatly limited, it being necessary to resort to the use of Coach Colors where special colors or variety is desired.

"Painting and finishing of automobiles differs somewhat from that of carriages and wagons. For example: The lines of automobile construction vary from forms of design observed in carriage making, and the strain to which the automobile is subjected is different from that of the horse-drawn vehicle."

The use of steel and aluminum for motor cars, and the excessive vibration and increased impact of dust, compelled changes in the foundation coats for the colors and the varnishes. The priming and roughstuff that, on wooden vehicles, admirably answered the purpose were not adapted to metals. So, special materials were prepared for the purpose and are now offered after the usual practical tests.

CARRIAGE GLOSS is a prepared paint containing a certain amount of varnish, which gives a glossy finish. Is used on repair jobs and cheap work.

WAGON PAINT is a prepared paint having no gloss and is used in Wagon Painting, etc.

LAMP BLACK and WHITE LEAD are used for the purpose of mixing and modifying paints, etc.

CHAMOIS SKINS and SPONGES are used by trimmers for moistening and cleansing leather, etc., and by painters for cleansing and polishing painted work, rubbing down, etc.

PUMICE STONE and RUBBING BRICK are used by painters in rubbing "undercoats," etc.

SAND PAPER is used by trimmers in smoothing up leather and by painters in smoothing up work before painting, etc.

BRUSH-KEEPERS are receptacles with separate compartments, provided with wire hangers, from which brushes may be suspended in preserving fluids.

PAINT PRESSES provide a means whereby Coach Colors may be pressed out of the can, as required, and at the same time exclude dust and dirt.

BRUSHES.—"One conspicuously famous brush maker has declared the art of brush making to be 'an art preservative.' The vehicle painter is deeply concerned in the achievements of that art, because every distinct achievement made therein makes possible an equally distinct advancement in the art of painting. To a greater extent, perhaps, than any other class of painters, the vehicle painter should be interested in making up his brush equipment of tools of the best quality. The brush made of reliable stock, having the the proper 'hang' and 'point,' and which balances like a 'thoroughbred,' is an economical tool to buy, regardless of the price. The first-class brush is distinctively the brush that shows good quality (uniform quality) from center to outside."

AXLE WASHERS are of two kinds, leather and vulcanized fibre, the former being obtainable in "solid" and in "coil" form. The object of washers is to take up end motion in wheels. There are various classes of special axle washers for different kinds of special axles.

AXLE LUBRICANTS, used properly, add materially to the life of the axle and axle box. The various grades, qualities and classes of lubricants are applicable to the axles of various classes of vehicles,—different conditions and usage also requiring different classes of lubricants.

HUB BANDS are used on the points of Hubs to finish and protect same, ragged Hub Bands being used on front wheels to serve as a convenient step in getting into the vehicle.

VARNISHES

SURFACERS FOR CARRIAGE WORK

Surfacer A—For Priming ..... Per Gal. $4.00
This article is superior to anything heretofore offered as a Primer. It penetrates the fibres and fills and seals the pores, thereby nourishing and toughening the wood and permanently preserving it. When once dry it is impossible to cause it to cleave off, crack, flake or peel. It should be followed by Surfacer B.

Surfacer B—For Loading 4.00
The composition of Surfacer B is to all intents and purposes identical with that of Surfacer A, over which it is to be laid, except that it possesses additions adapting it to its place in the System, and which makes it somewhat more cement-like. It should be followed by Surfacer C.

Surfacer C—For Leveling 4.00
The composition of Surfacer C is thoroughly homogeneous with Surfacer B, over which it is to be laid, and its office is that of a leveler. It replaces the ordinary roughstuff, but it is in every way superior to that article. Two or three coats should be used, according to the quality of the work.

Surfacer C—White 4.00
Similar to the foregoing, but intended for use where delicate colors are to be employed.

Priming 3.00
This article is intended as a Priming for carriages and railway cars. It penetrates the pores of the wood and permanently preserves it. When once dry it is impossible to cause it to cleave off, crack, flake or peel.

Reducible Roughstuff ..... Per Gal. $2.50
A perfect Surfacer, prepared and supplied to the painter ready ground in a stiff paste, like ready-ground color. It requires only the addition of spirits of turpentine to reduce to a consistency suitable for brushing on.

Carriage Body Sealer 1.50
This Sealer is intended to take the place of tub lead in preparing running gears for the color and body for rough stuff.

Motor Car Primer 4.00
Is equally valuable on any kind of metal as well as wood. When dry it is almost as hard as the metal. Eminently durable, it dries in from twenty-four to thirty-six hours according to shop conditions. Use a moderately stiff brush and apply one coat the same as varnish after removing thoroughly all scale, rust and grease.

Motor Car Surfacer 4.00
Comes in paste form in one-gallon pails. The proper working consistency is secured by adding two parts turpentine to five parts Surfacer. For good work use four coats of the Motor Car Surfacer, allowing twenty-four hours between coats.

UNDERCOATS

Hard Drying Body ..... Per Gal. $4.50
This Varnish is intended for use on Under Coats to prepare a fine and durable surface for Finishing Varnishes. It dries hard overnight and can be rubbed in from four to five days.

Rubbing Body 4.00
This varnish is intended for Under Coats, to prepare a durable surface for Finishing Varnishes. It dries hard overnight and can be rubbed nicely, without the slightest tendency to sweat, in about three days.

Pale Rubbing 4.50
This Varnish is similar to Rubbing Body, but is paler in color and intended for use over light shades.

Quick Rubbing 4.00
Similar to Rubbing Body, but is intended for use where a quicker drying varnish is required. It dries hard overnight and can be rubbed in twenty-four to thirty-six hours.

Coach Rubbing A ..... Per Gal. $4.00
A very pale Varnish. Works easily, flows well, and can be rubbed without sweating within 36 hours.

Coach Rubbing B 3.75
Similar to above, not quite so fine.

Coach Rubbing C 3.50
Similar to above, but not so pale in color.

Motor Car Four-day Rubbing 5.00

Motor Car Three-day Rubbing 4.00

Motor Car Two-day Rubbing 4.00

Motor Car Pale Rubbing 4.50

Surfacers in one gallon and one-half gallon packages—Undercoats in one gallon and quarter-gallon packages. To the net price, in one-gallon cans, add the following advances, per gallon, in small packages: Surfacers; one-half gallon cans, 20c. All others listed above: one-quarter gallon cans, 40c.

VARNISHES

COLOR UNDERCOATS

	Per Gal.
Black Rubbing — This Varnish is used for producing a Jet Black Surface on Coach Bodies or Gears. It is at the same time a coat of color and a coat of varnish. It flows freely, covers thoroughly and rubs well without sweating.	$4.00
Blackest Rubbing — A Varnish of the most intense blackness. Flows and dries about like Quick Rubbing.	4.00
Quick Black Rubbing — Similar to the foregoing, except that it is not quite so deep a black. In other respects it is fully equal and is used with very general satisfaction where price is an important consideration.	3.50
Coach Black Rubbing A — Intense black Color and Varnish for Undercoats. Works easily, dries hard, and will work without sweating in three days.	4.00
Coach Black Rubbing B — Similar to above. Not so fine, but very durable.	$3.75
Coach Black Rubbing C — Similar to above, but not so fine.	3.50
Superfine Carnation Rubbing	4.00
Superfine Red Rubbing A (Light)	3.50
Superfine Red Rubbing B (Medium)	3.50
Superfine Red Rubbing C (Deep)	3.50

The basis of these Varnishes is a Rubbing Varnish of fine quality; the colors are permanent and attractive and they will not settle. They cover solid over one ground coat on white, and may be used with confidence on the finest work.

FINISHING BODY

	Per Gal.
Palest Durable Body — This Varnish is for final coats on best work; it is very nearly colorless, flows freely, sets slowly and is eminently durable. It will dry overnight and may be safely run out in three days.	$6.00
Medium Drying Body — This is the same Varnish as Palest Durable Body, except that it hardens more quickly, and is therefore a desirable substitute on all jobs not allowing the same time or otherwise offering less favorable conditions, and is especially useful during the summer months or in shops where it is impossible to keep a uniform temperature.	6.00
Coach Finishing Body A	$5.00
Coach Body Finishing B	4.50
Coach Body Finishing C	4.00
Pale Wearing Body — A pale Varnish similar in all respects to medium drying body, except that it dries a little quicker and harder, being dust free within ten hours.	4.50
Palest Motor Car Body — For finishing coats on best work.	6.00
Medium Drying Motor Car Body — Same as Palest Motor Car Body except that it dries and hardens more quickly.	6.00

All of above in one gallon and quarter gallon packages.

To the net price in one-gallon cans, add the following advances per gallon, in smaller packages: quarter-gallon cans, 40c.

VARNISHES

FINISHING GEAR

	Per Gal.
Pale Durable Carriage — This Varnish is for final coats on best Running Parts; to be used over Rubbing Varnish, and is made with a special view to toughness and elasticity. It is our most brilliant Gear Varnish, and in body and flowing properties equals Palest Durable Body.	$5.00
Hard Drying Carriage — This Varnish contains all the requisite points for finishing running parts with one coat over striping. It hardens thoroughly through, is heavy bodied and is designed for that class of work when one coat only is practicable.	4.50
No. 1 Carriage — This Varnish is similar to Hard Drying Carriage in body and working properties, but is intended for a cheaper class of work or repairs. It hardens a little quicker than the foregoing, and is by some preferred on that account.	4.00
One Coat Carriage — This Varnish contains all the requisite points for finishing running parts with one coat over striping. It hardens thoroughly through, is heavy bodied and is designed for that class of work when one coat only is practicable.	$3.50
Pale Elastic Gear	4.00
Coach Gear Finishing A	4.00
Coach Gear Finishing B	3.75
Coach Gear Finishing C	3.50
Pale Motor Car Gear — For finishing coats on best gear work.	5.00
Heavy Motor Car Gear — For gear finishing with one coat.	4.50
Quick Motor Car Gear — One-coat Gear Finish that dries and hardens quickly.	4.00

JAPANS

	Per Gal.
Japan Gold Size — This is a light colored Dryer for mixing with Paints to aid their drying, binding and hardening through. It has superior binding properties, and on account of its paleness, it is particularly useful with light colors.	$3.50
Coach Makers' Japan — This is a very superior article for drying Paints and Colors. It mixes perfectly free with oil, and is a good binder as well as dryer. In uniformity and certainty of results it is without an equal.	2.00
Pale Drying Japan — This is a very superior Dryer for Paints and Colors. It is quite pale in color, will mix freely with oil, and will be found entirely reliable in every way.	$1.75
Railway Coach Japan — This is a very superior Dryer for Paints and Colors. It is quite pale in color, will mix freely with oil and will be found entirely reliable.	1.75
Coach Japan Light	3.00
Coach Japan Medium	2.75
Coach Japan Dark	2.50

MIXING OR BENCH

	Per gal.
Coach 188 — This Varnish is being used extensively by Carriage and Automobile Painters, and is giving entire satisfaction.	$2 20

All of above in one gallon and quarter-gallon packages.

To the net price, in one-gallon cans, add the following advances per gallon, in smaller packages: quarter-gallon cans, 40c

COACH COLORS

GROUND IN JAPAN

Blacks

	Per lb.
Fine Ivory Black R	$0.33
Ivory Black P	.28
Lamp Black	.28
Coach Black	.22
Special Ivory Black	.30

Reds

American Vermilion (L. & D.)	.45
Carnation Red (L., M. & D.)	1.05
Coach Red (L., M. & D.)	.83
Eastern Red (L., M. & D.)	.55
English Venetian Red	.28
English Vermilion (L. & D.)	1.32
Imperial Red (L. & D.)	.55
Indian Red	.37
Murphy Red (L., M. & D.)	1.05
Tuscan Red	.45
Wine Color (L., M. & D.)	.45

Greens

Brewster Green (Light)	.61
Coach Painters' Green (L., M. & D.)	.55
Express Wagon Green	.66
Merrimac Green (L. & D.)	.45
Milori Green (L., M. & D.)	.88
Murphy Green (L., M. & D.)	.66
Olive Green (L., M. & D.)	.55
Pea Green	.66
Permanent Emerald Green (L.,M.& D.)	.55
Quaker Green (Light)	.55
Willow (L. & D.)	.72

Blues

	Per lb.
Attitash Blue (L., M. & D.)	$0.66
Automobile Blue	.77
Azure Blue	.45
Cobalt Blue	1.32
Perfect Blue	.88
Prussian Blue	1.05
Ultramarine Blue	.88
Victoria Blue (L., M. & D.)	1.05

Browns

Beech Nut Brown	.55
Columbia Brown	.60
Italian Sienna (Burnt & Raw)	.41
Pale Amber	.66
Peanut Brown (L. & D.)	.55
Portland Amber	.55
Pullman Body Color	.45
Turkey Umber (Burnt & Raw)	.39
Vandyke Brown	.45

Yellows

Chrome Yellow (L., M. & Orange)	.55
Chrome Yellow (Deep Orange)	.55
Citron Yellow	.55
Golden Ochre	.37
Imitation of Gold	.83
Lemon Yellow	.66
Mellow Yellow	.55
Naples Yellow (L. & D.)	1.05
Permanent Yellow (L., M. & D.)	.83

Whites

	Per lb.
Body White	$0.66
Chremnitz White	.55
Flake White	.55
Silver White	.39
Zinc White	.45

Lakes

American Crimson Lake, A	1.58
Carriage Part Lake (L. & D.)	.74
English Yellow Lake, A	2.10
40 Carmine (L. & D.)	6.00

Special Motor Car Colors

Motor Car Brown	5380	.66
Motor Car Brown	5402	.55
Motor Car Brown	5403	.55
Motor Car Blue	5409	.83
Motor Car Blue	5410	.83
Motor Car Green	5020	.55
Motor Car Green	5079	.83
Motor Car Green	5353	.66
Motor Car Green	5536	.55
*Motor Car Grey	5388	.55
*Motor Car Grey	5390	.55
*Motor Car Grey	5394	.55
*Motor Car Grey	5399	.55
Motor Car Olive	5375	.55
Motor Car Red	5338	.88
Motor Car Red	5363	.66
Motor Car Red	5534	1.05
Motor Car Red	5540	1.58
Motor Car Yellow	5086	.50
Motor Car Yellow	5408	.55

All leading colors carried in 5-lb. press cans; all other colors, 1-lb. cans.
*Not sent in press cans because they must be thoroughly mixed each time any color is taken from the can.
Color Card of Coach and Motor Car Colors will be sent on application.

STRIPING COLORS

40 Carmine, (L. & D.), per 4-oz. tube		$3.00
40 Carmine, (L. & D.), per 2-oz. tube		1.55
English Vermilion	" "	.70
Naples Yellow	" "	.42
Permanent Yellow, Pale	" "	.42
Chrome Yellow, Orange, per 2-oz. tube		$0.42
Flake White	" "	.45
Pea Green	" "	.45
Milori Green	" "	.45
Perfect Blue	" "	.55

All Colors are net weight, i. e.: can or tube is excluded.

PAINTS AND PAINTERS' SUPPLIES

CARRIAGE GLOSS

	Pints.	Quarts.
Lemon Chrome	$0.60	$1.00
Bronze Green	.45	.75
Orange Chrome	.60	1.00
Coach Painters' Green	.60	1.00
Tuscan Red	.45	.75
Wine	.60	1.00
Black	.45	.75
Crimson	.60	1.00
Vermilion	.60	1.00
Carmine	.60	1.00

LAMP BLACK

Germantown, Dry	Per lb.,	$0.20
Commercial, Dry	"	.15

CHAMOIS SKINS

No. 28 —Size 28 x 32 inches	Per doz.,	$15.00
No. 25¾—Size 18 x 24 inches	"	9.00

PUMICE STONE

Lump, Selected	Per lb.,	$0.15
Powdered	"	.10

BRUSH KEEPERS

Smith's ..... Each, $2.50

PAINT PRESSES

Smith's ..... Each, $2.50

WAGON PAINT

	Quarts.	Half Gallons.	Gallons.
Green	$0.65	$1.25	$2.40
Black	.65	1.25	2.40
Blue	.65	1.25	2.40
Yellow	.65	1.25	2.40
Red	.65	1.25	2.40

WHITE LEAD

Coach and Car ..... Market

12½, 25, 50 and 100 lb. kegs.

SPONGES

Rock Island, Large	Per lb.,	$5.00
Rock Island, Small	"	4.00

RUBBING BRICK

Eureka Rubbing Brick ..... Per lb., $0.25

Place in water before using and use plenty of water when working. Never work dry.

Each Brick weighs about one pound.

SAND PAPER

No. 0 —Size sheet, 9x11 inches	Per ream,	$6.25
No. ½—Size sheet, 9x11 inches	"	6.25
No. 1 —Size sheet, 9x11 inches	"	6.75
No. 1½—Size sheet, 9x11 inches	"	7.25
No. 2 —Size sheet, 9x11 inches	"	7.75
No. 2½—Size sheet, 9x11 inches	"	8.25
No. 3 —Size sheet, 9x11 inches	"	9.50

One-half Ream per Package.

BRUSHES

FLAT DUSTER

No. 500—Width 4 inches, length 4¾ inches..Per doz., $19.48

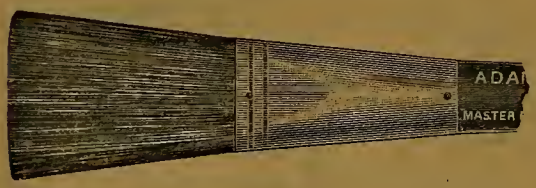
Red polished wood. Black bristles outside. Grey bristle middles. Best quality.

A high-grade brush, made of Russia bristle throughout. Extra long stock.

ROUND DUSTER

No. 55—Length 4⅛ inches	Per doz.,		$13.66
No. 60—Length 4⅝ inches	"		17.54
No. 65—Length 4⅞ inches	"		22.10

Yellow polished wood. Black bristle outside. Grey bristle middles. Best quality. This is the best painter's duster made. Warranted all Russia bristles.



BRISTLE FLAT FITCH

Master Painters'

¼-inch	Per doz.,	$0.78
⅜-inch	"	.88
½-inch	"	.98
⅝-inch	"	1.20
¾-inch	"	1.38
⅞-inch	"	1.62
1 -inch	"	2.02
1¼-inch	"	2.82
1½-inch	"	3.64

Tin bound. Polished red handle. White bristle. Best quality. A perfect working brush.

FLAT PAINT

Adams O. K. Stucco

No. 15—Width 2½ in., length 4½ in.	Per doz.,		$14.15
No. 20—Width 3 in., length 4¾ in.	"		19.78
No. 25—Width 3 in., length 5 in.	"		23.20
No. 30—Width 3½ in., length 5¼ in.	"		31.60
No. 35—Width 4 in., length 5½ in.	"		39.80
No. 40—Width 4½ in., length 5¾ in.	"		46.60

Leather bound. Red varnished handle. All white bristles. Very best quality.

This is a perfect brush in every way for the professional painter. It is made entirely of the very best Russia bristles, carefully selected for their even spring and stiffness, and it cannot be excelled in any particular.

OVAL VARNISH OR PAINT

Adams A

No. 1-0—Length 4 inches	Per doz.,		$7.68
No. 2-0—Length 4¼ inches	"		9.90
No. 3-0—Length 4½ inches	"		11.28
No. 4-0—Length 4¾ inches	"		13.78
No. 5-0—Length 5 inches	"		16.98
No. 6-0—Length 5¼ inches	"		21.16

Wire bound. All white bristles. Good quality.

A medium-weight practical brush for ordinary work.

CARRIAGE OR BLIND PAINT

Adams O. K.

No. 5—Length 4¾ inches	Per doz.,		$14.04
No. 4—Length 5 inches	"		16.38
No. 3—Length 5¼ inches	"		19.88

Wire bound. All white bristles. Best quality.

A round brush of small diameter and long bristles; very popular for carriage work.

BRUSHES

CHISELED OVAL VARNISH

Adams A. A.

No. 2—Length 3	inches	Per doz., $9.90
No. 3—Length 3¼	inches	" 12.12
No. 4—Length 3½	inches	" 14.32
No. 5—Length 3¾	inches	" 16.54
No. 6—Length 4⅛	inches	" 19.28
No. 7—Length 4⅜	inches	" 23.16
No. 8—Length 4⅝	inches	" 27.36

Nickel bound. All white French bristles. Finest quality. A very superior brush for high-grade work.

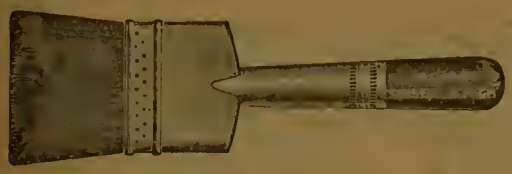
BRISTLE FLOWING VARNISH

Adams White Car and Panel, Chiseled

½ inch full width	Per doz.,	$4.50
1 inch full width	"	5.44
1½ inch full width	"	8.07
2 inch full width	"	10.74
2½ inch full width	"	15.10
3 inch full width	"	19.40

Brass bound. Polished cedar handle. Selected White bristles. Glue set. Very superior quality.

The best and most practical brush in use for flowing fine varnishes. Especially adapted to use for fine carriage and car work.

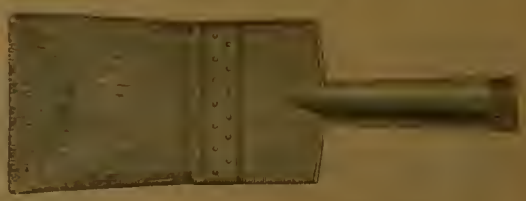


FITCH HAIR FLOWING

Adams Thin Silver, Chiseled Edge

1 inch wide	Per doz.,	$3.92
1½ inch wide	"	5.81
2 inch wide	"	7.84
2½ inch wide	"	9.78
3 inch wide	"	11.74

Nickel bound. Red Tips. Glue set. A high-grade brush made of selected hair.



BRISTLE FLOWING VARNISH

Adams Silver, Chiseled

1 inch wide	Per doz.,	$2.72
1½ inch wide	"	3.72
2 inch wide	"	5.10
2½ inch wide	"	7.38
3 inch wide	"	9.16

Nickel bound. Red tips. White bristles. Glue Set. Superior quality.

An excellent brush for fine work.

CAMEL HAIR MOTTLING

Adams Superior

½ inch wide	Per doz.,	$4.32
1 inch wide	"	6.32
1½ inch wide	"	9.58
2 inch wide	"	12.84
2½ inch wide	"	19.28
3 inch wide	"	25.38

Brass bound. Polished handle. Glue set. A superior brush, made of the very best selected hair. The highest grade of camel hair brush that can be made.

CAMEL HAIR COLORING

Adams Superior

½ inch wide	Per doz.,	$4.68
1 inch wide	"	7.16
1½ inch wide	"	12.34
2 inch wide	"	15.92
2½ inch wide	"	23.14
3 inch wide	"	30.32

Brass bound. Polished handle. Glue set.

A double thick, superior brush. The highest grade of camel-hair brush that can be made.

BRUSHES

CAMEL HAIR LETTERING PENCILS IN QUILLS

In lengths, ¾ inches and 1 inches	Per gro.,	$6.15
In lengths, 1¼ inches and 1½ inches	"	7.00

Furnished in any desired size and length in less than gross lots at the following prices:

No. 1	Per doz.,	$0.40
No. 2	"	.45
No. 3	"	.55
No. 4	"	.70
No. 5	"	.85
No. 6	"	1.00
No. 7	"	1.20
No. 8	"	1.35
Assorted, Nos. 1 to 8	"	.70

Put up in compartment boxes containing one gross assorted sizes, Nos. 1 to 8.

Each size packed separately.

BLACK SABLE STRIPING PENCILS IN QUILLS

No. 1	Per doz.,	$2.26
No. 2	"	3.12
No. 3	"	4.26
No. 4	"	6.38
No. 5	"	9.38
No. 6	"	11.88
No. 7	"	14.00
No. 8	"	16.88
No. 10	"	25.00

Absolutely pure. Length of hair, 2¼ inches.

CAMEL HAIR DAGGER STRIPING PENCIL

No. 1	Per doz.,	$2.38
No. 2	"	2.50
No. 3	"	2.62
No. 4	"	2.74
Assorted, Nos. 1 to 4	"	2.56

Diagonal ends. Copper Wire binding. Wood handles.

OX HAIR SWORD STRIPING PENCIL

No. 1	Per doz.,	$1.24
No. 2	"	1.34
No. 3	"	1.50
No. 4	"	1.64
Assorted, Nos. 1 to 4	"	1.45

Made with Tin Handles.

BRUSH INFORMATION

Do not soak Oval Chisel Varnish Brushes in water before using, but open bristles in center of brush and pour in a teaspoonful of water and let brush stand on handle until water is absorbed.

Too much bleaching makes very white bristles, but it injures their strength and renders them less durable.

Flat Varnish Brushes used in paint should not be kept in water.

A Varnish Brush in daily use should be suspended in the varnish over night.

Varnish Brushes when not in use should be kept in raw oil, or in varnish deep enough to cover the ferrule. Never clean a varnish brush in turpentine.

Never buy a Fitch or Camel's-hair Brush that shows extreme length of hair. The longest hairs never have as much life and spring as those of medium length.

Brushes set in glue should not be put in water. When through using and before putting away for future use, soak in benzine to get out all the varnish, and dry thoroughly.

To detect Tampico—pull out fibres from different parts of the brush and burn them separately. If Tampico, they will burn with a clear and steady flame, leaving but little ashes and no odor. Bristle, being an animal substance, will twist and sizzle in burning, and emit a strong odor.

The number, size or length of a brush is of little value in comparing different catalogs. If you wish to compare values, examine the brushes themselves.

To break in a good Stucco Brush—shake out loose bristles, if any, before using. When through work, soak the brush in linseed oil and lay out evenly on a flat board for three consecutive days, after which it can be kept in water.

A mechanic who practices true economy will always select the very best brushes, as the work they will do will repay their cost.

More brushes are lost from lack of good care than are ever consumed in actual wear.

Brushes should never be kept in a warm or dry place, as they are liable to shrink or come apart.

Paint or Varnish Brushes should never be used as dusters, nor used dry.

If from any cause brushes have shrunk, they can generally be restored by putting them for a short time in a cellar or damp place.

Brushes that weigh the most are not always the heaviest in bristles.

Numbers 3, 4 and 5 "O K Blind Brushes" are largely used by carriage painters.

Examine your Camel's-hair Pencils carefully and keep them free from moths.

The sizes and measurements given in this catalog are actual.

Always clean Lettering and Striping Pencils thoroughly, and point them in lard, oil or grease before putting them away.

AXLE WASHERS

Solid Leather

All of our Solid Leather Washers are made from selected oak tanned leather, and we guarantee them to be equal, if not superior, to any washers in the market.

Owing to the increased demand for Vulcanized Fibre Washers, we carry a full stock and are prepared to fill all orders promptly.

and

Vulcanized Fibre

STANDARD LIST OF SOLID LEATHER AND VULCANIZED FIBRE WASHERS

Suitable for Standard Makes of Half Patent Axles

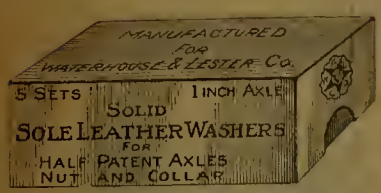
NUT WASHERS

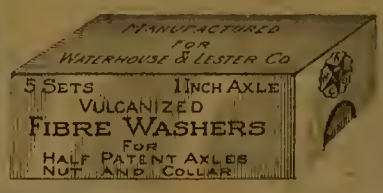
Size Axle	No.	Inside Diam.	Ontside Diam.	Per 100
¾-inch	1	¾-inch	1 -inch	$1.75
⅞-inch	14	⅞-inch	1⅛-inch	1.75
⅞-inch	27	⅞-inch	1⅛-inch	1.75
1..-inch	28	⅞-inch	1⅜-inch	1.75
1⅛-inch	42	⅞-inch	1⅜-inch	2.25
1⅛-inch	67	1⅛-inch	1⅜-inch	2.25
1¼-inch	93	1⅛-inch	1½-inch	2.50
1⅜-inch	107	1¼-inch	1⅝-inch	2.50
1½-inch	147	1⅜-inch	1¾-inch	2.75

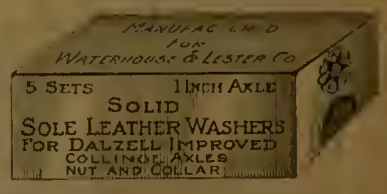
COLLAR WASHERS

Size Axle	No.	Insido Diam.	Outsido Diam.	Per 100
¾-inch	42	⅞-inch	1⅜-inch	$2.25
⅞-inch	68	1⅛-inch	1⅜-inch	2.25
⅞-inch	81	1¼-inch	1½-inch	2.50
1 -inch	95	1⅛-inch	1⅝-inch	2.50
1⅛-inch	107	1-¼inch	1⅝-iuch	2.50
1⅛-inch	121	1⅜-inch	1¾-inch	2.50
1¼-inch	149	1⅜-inch	2 -inch	2.75
1⅜-inch	161	1½-inch	2 -inch	2.75
1½-inch	213	1⅝-inch	2¼ inch	3.50

In Boxes of 50, Nut and Collar Separate.







FOR HALF PATENT AXLES

Solid Leather or Vulcanized Fibre

Size Axle, inches..	¾	⅞	⅞	1	1⅛
Per box (5 set)...	$0.70	$0.80	$0.90	$0.90	$1.00
Size Axle, inches.....	1⅛	1¼	1⅜	1½	
Per box (5 set).....	$1.00	$1.10	$1.25	$1.40	

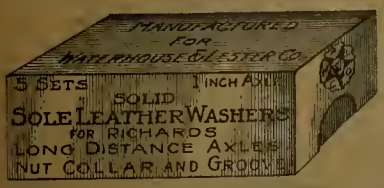
In Boxes of 5 Set (40 Washers for Nut and Collar).

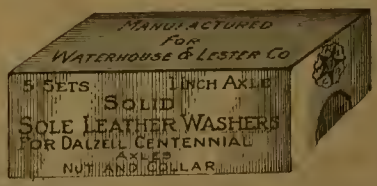
FOR DALZELL IMPROVED COLLINGE

Solid Leather

Size Axle, ins..	1⅛	1¼	1⅜	1½	1⅝	1¾
Per box (5 set)	$4.00	$5.00	$6.00	$8.00	$10.00	$12.00

In Boxes of 5 Set (40 Washers for Nut and Collar).





FOR RICHARD'S LONG DISTANCE

Size Axle, inches.....	¾	⅞	⅞	1⅛
Per box (5 set).....	$1.20	$1.25	$1.35	$1.40
Size Axle, inches.....	1	1⅛	1⅛	1¼
Per box (5 set).....	$1.50	$1.60	$1.65	$3.00

In Boxes of Five Set (60 Washers for Nut, Collar and Groove).

COIL AXLE WASHERS

For Axle, inches ⅞	1	1⅛	1¼	1½
Por Box.....$0.90	$1.00	$1.10	$1.20	$1.50

Each Box contains sufficient coil to make 100 washors.
Adjustable to Nut or Collar.

FOR DALZELL CENTENNIAL

Size Axle, inches.....	⅞	⅞	1
Per Box (5 set).....$2.00	$2.20	$2.20	
Size Axle, inches	1⅛	1⅛	1¼
Per Box (5 set)..... .....$2.50	$2.50	$4.00	

FELT OIL PAD

Felt Pads, for Long Distance Axles.....Per set (4) $0.25

These Pads absorb the oil, supplying it automatically to the spindle.

LUBRICANTS

MATHER'S AXLE OIL

Pints . . . . . Per doz., $4.50
Qnarts . . . . . " 7.00

Pints One Dozen per Case.
Quarts One Dozen per Case.

A pure lubricant especially prepared for use on "Thousand Mile," "Long Distance," and other self lubricating axles.

BOSTON COACH OIL

Pints . . . . . Per case (1 doz.) $3.60
Quarts . . . . . " " 5.40
Half Gallons . . " (½ doz.) 4.65
Gallons . . . . . " " 7.20

For use on all kinds of axles. Does nor gum or corrode, and is superior to and more economical than Castor Oil.

CASTROLENE

1-lb. Tins . . . . . Per doz., $1.75
1-lb. Tins . . . . . Per case (3 doz.) 5.00

A heavy-bodied, light colored grease, especially adapted to use on light wagon and carriage axles as a substitute for castor oil. It will not gum, dry out or become rancid, requires but a small quantity to do the work and remains always of the same consistency.

C. & S. AXLE GREASE

2-lb. Tins . . . . . Per doz., $1.60
2-lb. Tins . . . . . Per case (2 doz.) 3.00
5-lb. Pails (Tin) . . . . . Per case (1 doz.) 4.00
10-lb. Pails (Tin) . . . . . Per case (½-doz.) 4.00
15-lb. Pails (Tin) . . . . . Per case (⅓-doz.) 4.00
25-lb. Pails (Galv. Iron) . . . . . Per doz., 18.00

Special Prices on Quantity Lots.

Suitable for light and heavy vehicles. It is an excellent gear grease and a very fine lubricant for general purposes.

MICA AXLE GREASE

1-lb. Tins . . . . . Per doz., $1.25
1-lb. Tins . . . . . Per case (3 doz.) 3.50
3-lb. Tins . . . . . Per dozen, 3.00
3-lb. Tins . . . . . Per case (2 doz.) 5.50
10-lb. Tins . . . . . Per case (½-doz.) 4.50
10-lb. Pails (Galv. Iron) . . . . . Per dozen, 9.00
25-lb. Pails (Galv. Iron) . . . . . " 21.00

Special Prices on Quantity Lots.

Made of best grease stock and ground Mica, which fills up the pores and crevices in the axle and forms a hard, smooth coating, thus reducing friction to a minimum.

PLATED HUB BANDS

PLAIN PATTERN, EXTRA HEAVY

Composition (Silver Plated)

1¾-inches Deep.

Diam., ins....	2⅛	2¼	2⅜	2½	2⅝	2¾	2⅞	3
Per Set (4)..	$1.40	$1.40	$1.40	$1.40	$1.50	$1.60	$1.70	$1.80

2 inches Deep.

Diam., ins.....	2½	2⅝	2¾	2⅞	3	3⅛	3¼
Per Set (4)....	$1.80	$1.90	$2.00	$2.10	$2.20	$2.40	$2.60

CENTRAL PARK PATTERN

Composition (Silver Plated)

2 inches Deep.

Diameter, inches.....	2⅞	3	3⅛	3¼
Per Set (4).....	$3.80	$1.00	4.20	$1.40

Rear

Plain Beaded

Front

Beaded and Ragged

CENTENNIAL PATTERN

Composition (Silver Plated)

Two Ragged and Two Plain Beaded Bands to a Set.

2½ inches deep.

Diameter, inches	3⅛	3⅜	3¾	3⅞
Per set (4)	$11.85	$12.66	$13.44	$14.22

2¾ inches deep.

Diameter, inches	4	4⅛	4¼	4⅜	4½
Per set (4)	$15.00	$16.11	$17.07	$18.00	$18.96

For Sets of all Ragged Bands add 25 per cent net.

HUB BAND NAILS

Hub Band Nails, Silver, ½-in. No. 13..Per gro. $0.40

NAME PLATE NAILS

Name Plate Nails, Silver, ½-in. No. 15..Per gro. $0.30

MISCELLANEOUS

Whisk Brooms	Per doz.	Wire Brads, 2½ inch, No. 10, in 1-lb. papers	Per lb.
Dusters	"	Wire Nails, Assorted, 1 to 2½ inch, 1-lb. papers	"
Magnets	Each,	French Chalk (Soapstone)	"
Edge Ink Brushes	Per doz.	Blue or White Crayons	Per box
Carriage Bolts, Assorted, ¼ and $\frac{5}{16}$x1½	Per 100	Carpenter's Pencils	Per gro.
Machine Bolts, Assorted, ¼ and $\frac{5}{16}$x1½	"	Pins, Large and Medium	Per lb.
Spring Strip Nails	Per lb.	Waste, White Cotton	"

We list above an assortment of Supplies, all of which are frequently or occasionally required in a well-equipped Trimming Shop.

ADDITIONS AND REVISIONS

INSERT FOLLOWING THIS SHEET, ALL
ADDITION AND REVISION SHEETS

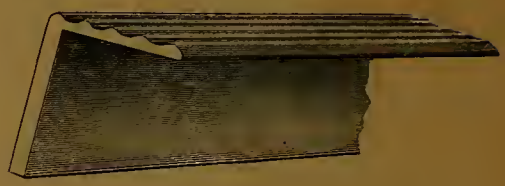
ADDITIONS AND REVISIONS

PERFECTION TRACE HOLDER

Patented

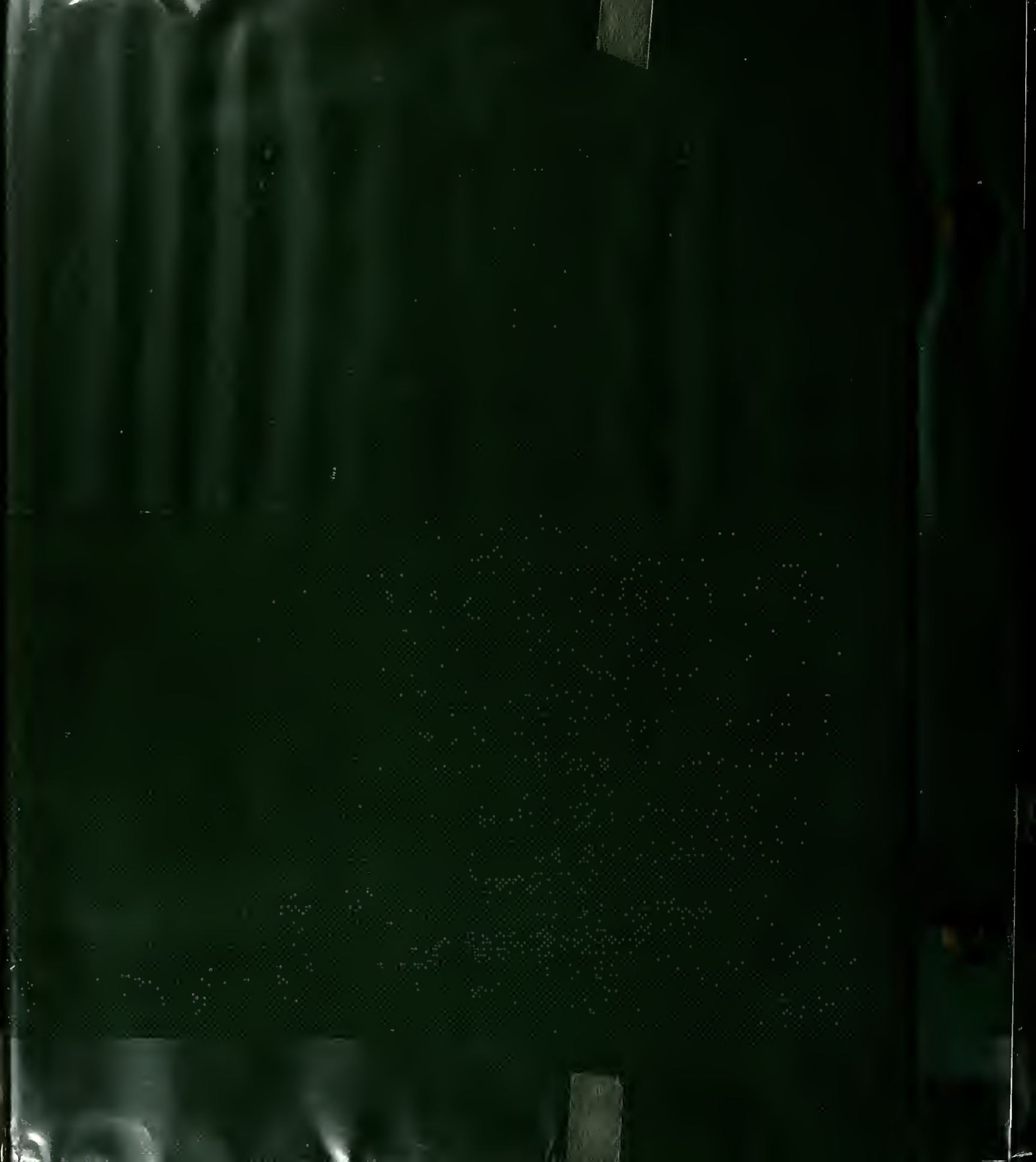
Nickel Plated .....Per doz., $5.00

This is a high-grade article, the quality of the constituent materials and the workmanship fully justifying its price.



FOOT BOARD MOLDING

Corrugated Top

No. 14C—Polished Brass.....Per foot, $0.75

Size $\frac{3}{4}$x1 inches, 1/10 inch thick, 13-foot lengths. An up-to-date substitute for plain F. B. Molding.